STIC Search Report
EIC 2100

USPTO — Scientific & Technical Information Center

|	
TO: Chongshan Chen **Location: 4B25** **Art Unit : 2172** **Wednesday, January 21, 2004** **Case Serial Number: 09/973678**	**From: David Holloway** **Location: EIC 2100** **PK2-4B30** **Phone: 308-7794** **david.holloway@uspto.gov**

Search Notes

Dear Examiner Chen,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David
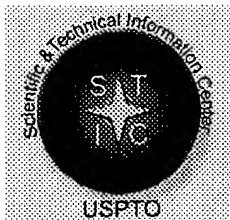
Today's Date:

1-14-04

What date would you like to use to limit the search?

Priority Date: 10/5/2000   Other:

Name *Chongshan Chen*

AU *272*   Examiner # *79547*

Room # *4B25*   Phone *305-8319*

Serial # *09/973, 678*

Format for Search Results (Circle One):
(PAPER)   DISK   EMAIL

Where have you searched so far?

USP   DWPI   EPO   JPO   ACM   IBM TDB

IEEE   INSPEC   SPI   Other _____

Is this a "Fast & Focused" Search Request? (Circle One)   YES   (NO)
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

An Adaptive Criteria filtering System (ACFS) that assembles sort criteria for an Information Sorting Mechanism (ISM), the ACFS comprising:

An instruction port configured to receive an instruction list containing zero or more data element identifiers;

A secondary port configured to receive secondary sort criteria;

An output port configured to send an adapted list of data element identifiers to the ISM and/or to the mechanism that invoked the ACFS; and

A filter configured to:

Receive the instruction list from the instruction port,

Receive the secondary sort criteria from the secondary port,

Create the adapted list by merging the instruction list with relevant portions of the secondary sort criteria which may include the entire secondary sort criteria, and

Send the adapted list to the output port;

Whereby the ACFS adapts secondary sort criteria to user-specified sort criteria, giving the user control over the primary sort order while retaining the benefit of the secondary sort criteria.

STIC Searcher *David Holloway*   Phone *308-7794*

Date picked up *1-20-04*   Date Completed *1-21-04*

```
Set      Items     Description
S1       722461    REARRANG? OR RESORT? OR REFILTER? OR ACF
S2        46026    (DEFAULT? OR INITIAL? OR ORIGINAL? OR MAIN? OR PRIMARY?)(2-
                   N)(SORT? OR ARRANGE? OR ISM OR FILTER? OR INDEX? OR INDICE?)
S3       113129    (SECOND? OR ADDITIONAL? OR NEXT? OR ANOTHER? OR AGAIN? OR -
                   2ND? OR VARIOUS?)(2N)(ISM OR SORT? ? OR FILTER? OR ARRANGE? OR
                   INDEX? OR INDICE?)
S4       830173    S1 OR S3
S5     15452574    REDUNDANT? OR DUPLICAT? OR REPEAT? OR AGAIN? OR SAME? OR S-
                   IMILAR? OR IDENTICAL? OR COMPATIBLE?
S6      5350696    DATA()ELEMENT? OR FIELD? OR TAG? OR METADATA? OR LABEL? OR
                   META()(DATA OR INFORMATION)
S7        63156    (OUTPUT? OR DEFAULT? OR INPUT OR (IN OR OUT)()PUT? ?)(3N)(-
                   PORT? ? OR COMMPORT? OR  BUS OR LINE? OR ACCESS?)
S8      9004079    RECORD? ? OR OBJECT? OR TEXT?
S9      2578440    DATAMINE? OR DATA()(MINE? OR WAREHOUSE? OR BASE? OR BANK?)
                   OR OODB OR DBMS OR RDBMS OR DB OR DATABASE? OR DATABANK?
S10       12666    (MULTILEVEL? OR TIER? OR HIERARCH?)(3N)(RESULT? OR SEARCH?
                   OR SEEK? OR QUER? OR FILTER? OR SORT?)
S11    16981090    USER? OR INDIVIDUAL? OR MEMBER? OR OPERATOR? OR PERSONAL?
S12        1523    S2(S)S4
S13         178    S12(S)S9
S14           1    S13(S)S10
S15           1    (S1 OR S3)(S)S10(S)S9(S)S5
S16          64    S2(5N)S4(5N)S9
S17           6    (S2 OR S4)(S)S10(S)S9
S18         714    S11(5N)(S2 OR S4)(10N)S9
S19         127    S18(S)S5
S20          18    S19(S)S6
S21          87    S20 OR S17 OR S16 OR S15 OR S14
S22          52    RD (unique items)
S23          48    S22 NOT PY>2000
S24          48    S23 NOT PD>20001006
File 275:Gale Group Computer DB(TM) 1983-2004/Jan 20
         (c) 2004 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2004/Jan 20
         (c) 2004 The Gale group
File  75:TGG Management Contents(R) 86-2004/Jan W2
         (c) 2004 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jan 20
         (c) 2004 The Gale Group
File  16:Gale Group PROMT(R) 1990-2004/Jan 20
         (c) 2004 The Gale Group
File 624:McGraw-Hill Publications 1985-2004/Jan 20
         (c) 2004 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2004/Jan W2
         (c) 2004 ProQuest
File 613:PR Newswire 1999-2004/Jan 21
         (c) 2004 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2003/Nov
         (c) 2003 The HW Wilson Co
File 696:DIALOG Telecom. Newsletters 1995-2004/Jan 15
         (c) 2004 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
         (c) 2004 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jan 20
         (c) 2004 The Gale Group
File 674:Computer News Fulltext 1989-2004/Jan W2
         (c) 2004 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2004/Jan 21
         (c) 2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2004/Jan 20
         (c) 2004 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2004/Jan 20
```

Full Text Databases

```
          (c) 2004 ProQuest Info&Learning
File    9:Business & Industry(R) Jul/1994-2004/Jan 19
          (c) 2004 Resp. DB Svcs.
File   13:BAMP 2004/Dec W4
          (c) 2004 Resp. DB Svcs.
File  810:Business Wire 1986-1999/Feb 28
          (c) 1999 Business Wire
File  610:Business Wire 1999-2004/Jan 21
          (c) 2004 Business Wire.
File  647:CMP  Computer Fulltext 1988-2004/Jan W2
          (c) 2004 CMP Media, LLC
File  148:Gale Group Trade & Industry DB 1976-2004/Jan 20
          (c)2004 The Gale Group
File  634:San Jose Mercury  Jun 1985-2004/Jan 20
          (c) 2004 San Jose Mercury News
```

01604965   SUPPLIER NUMBER: 13979271   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Reading between the lines.
Pedersen, Elinor
MIDRANGE Systems, v6, n12, p37(4)
June 22, 1993
ISSN: 1041-8237   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2640   LINE COUNT: 00207

...   the peaks and valleys of network traffic. However, APPN only uses
these as a last **resort** , when the directory resources at its disposal fail
to produce viable addressing information for a...

...steps of an APPN search procedure minimizes impact on network
performance by passing through a **search   hierarchy** that only does a
broadcast search when all else fails. The directed search procedure is
based on a series of directory **databases** maintained in separate update
operations.
       All nodes have local directories. These include resources on adjacent
...

24/3,K/17   (Item 17 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01354990   SUPPLIER NUMBER: 08316692   (USE FORMAT 7 OR 9 FOR FULL TEXT)
PC program provides customer demographics; packages fine tune marketing
  efforts. (Software Review) (Management Science Associates offers Profile
  Marketing Workstation) (evaluation)
Persing, Linda L.
Computers in Banking, v7, n3, p80(2)
March, 1990
DOCUMENT TYPE: evaluation   ISSN: 0742-6496   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1379   LINE COUNT: 00110

...   is one of the few places where user inputs are variable. Creating a
user defined **field** to query the data base on the fly, a feature found in
other programs, is...

...Unfortunately, the software doesn't keep track of the filter on screen,
where if the **user** errs entering some criteria, it's easy to remedy before
the combination of **filters** is executed **against** the **data** **base** . Many
of these query criteria might be more effectively utilized if they were
placed on...

```
S1      209348   REARRANG? OR RESORT? OR REFILTER? OR ACF
S2       16110   (DEFAULT? OR INITIAL? OR ORIGINAL? OR MAIN? OR PRIMARY?)(2-
                 N)(SORT? OR ARRANGE? OR ISM OR FILTER? OR INDEX? OR INDICE?)
S3       30931   (SECOND? OR ADDITIONAL? OR NEXT? OR ANOTHER? OR AGAIN? OR -
                 2ND? OR VARIOUS?)(2N)(ISM OR SORT? ? OR FILTER? OR ARRANGE? OR
                 INDEX? OR INDICE?)
S4      240183   S1 OR S3
S5     5656402   REDUNDANT? OR DUPLICAT? OR REPEAT? OR AGAIN? OR SAME? OR S-
                 IMILAR? OR IDENTICAL? OR COMPATIBLE?
S6     4403038   DATA()ELEMENT? OR FIELD? OR TAG? OR METADATA? OR LABEL? OR
                 META()(DATA OR INFORMATION)
S7       48370   (OUTPUT? OR DEFAULT? OR INPUT OR (IN OR OUT)()PUT? ?)(3N)(-
                 PORT? ? OR COMMPORT? OR  BUS OR LINE? OR ACCESS?)
S8     3177417   RECORD? ? OR OBJECT? OR TEXT?
S9      771379   DATAMINE? OR DATA()(MINE? OR WAREHOUSE? OR BASE? OR BANK?)
                 OR OODB OR DBMS OR RDBMS OR DB OR DATABASE? OR DATABANK?
S10       9364   (MULTILEVEL? OR TIER? OR HIERARCH?)(3N)(RESULT? OR SEARCH?
                 OR SEEK? OR QUER? OR FILTER? OR SORT?)
S11    3329382   USER? OR INDIVIDUAL? OR MEMBER? OR OPERATOR? OR PERSONAL?
S12        703   S2 AND S4
S13         75   S12 AND S9
S14          1   S12 AND S10
S15         19   S13 AND (S11 OR S10)
S16          7   (S1 OR S3) AND S10 AND S9 AND S5
S17         27   S14 OR S15 OR S16
S18         87   S11 AND S12
S19         29   S18 AND (S5 OR S6 OR S7)
S20         47   S14 OR S15 OR S16 OR S17 OR S19
S21         37   RD (unique items)
S22         36   S21 NOT PY>2000
S23         36   S22 NOT CY>2000
S24         36   S23 NOT PD=20001006:20021006
S25         36   S24 NOT PD=20021006:20040130
File    8:Ei Compendex(R) 1970-2004/Jan W2
           (c) 2004 Elsevier Eng.  Info. Inc.
File   35:Dissertation Abs Online 1861-2004/Dec
           (c) 2004 ProQuest Info&Learning
File  202:Info. Sci. & Tech. Abs. 1966-2003/Nov 17
           (c) 2003 EBSCO Publishing
File   65:Inside Conferences 1993-2004/Jan W3
           (c) 2004 BLDSC all rts. reserv.
File    2:INSPEC 1969-2004/Jan W2
           (c) 2004 Institution of Electrical Engineers
File   94:JICST-EPlus 1985-2004/Jan W2
           (c)2004 Japan Science and Tech Corp(JST)
File  111:TGG Natl.Newspaper Index(SM) 1979-2004/Jan 16
           (c) 2004 The Gale Group
File  233:Internet & Personal Comp. Abs. 1981-2003/Sep
           (c) 2003 EBSCO Pub.
File  144:Pascal 1973-2004/Jan W2
           (c) 2004 INIST/CNRS
File  434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
           (c) 1998 Inst for Sci Info
File   34:SciSearch(R) Cited Ref Sci 1990-2004/Jan W2
           (c) 2004 Inst for Sci Info
File   99:Wilson Appl. Sci & Tech Abs 1983-2003/Nov
           (c) 2003 The HW Wilson Co.
```

Bibliographi
Databases

DIALOG(R)File   8:Ei Compendex(R)

00909240   E.I. Monthly No: EI8004030230   E.I. Yearly No: EI80044468
  Title: INFORMATION RETRIEVAL WITH APL BY ADAPTIVE INDEX AND USER GUIDANCE.
  Author: Schek, Hans-Joerg; Walch, Georg
  Corporate Source: IBM, Heidelberg, Ger
  Source: APL Quote Quad v 9 n 4 Pts 1 & 2 Jun 1979, APL '79 Conf Proc, Rochester, NY, May 30-Jun 1 1979 Publ by ACM, New York, NY, 1979 pt 1 p 385-392
  Publication Year: 1979
  Language: ENGLISH
  Journal Announcement: 8004
  Abstract: A system is described applicable for information retrieval and update both in formatted and unformatted files containing non-numerical data. It uses a new reference-string indexing technique which supports partial-match queries and **similar** -record search. The reference-string index is adapted to data usage or data. Those parts of records which are estimated by the program to be specified very often in queries are included as reference strings and inverted. For data access in the retrieval phase, the specified attribute values and their logical expressions are transformed into a logical expression between reference strings. **Primary** and **secondary** (**index**) data are stored as external files using auxiliary processors for access. The retrieval and update functions are combined with the **user** -guidance component used to describe data (dictionary), to teach system use, and to assist as a permanently available help feature. As an internal structure it uses a semantic net to navigate the **user** from general to more specific information. A new interesting feature is the use of selected reference strings and selected combinations of them as a more detailed data description extracted automatically from the data or even data usage. 9 refs.
  Descriptors: *INFORMATION RETRIEVAL SYSTEMS; COMPUTER PROGRAMMING LANGUAGES
  Identifiers: APL LANGUAGE
  Classification Codes:
  901 (Engineering Profession); 723 (Computer Software)
  90 (GENERAL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING)

**An efficient index strategy for multiattribute queries on very large
historical** databases
   Author: Calascibetta, David M.
   Degree: Ph.D.
   Year: 2000
   Corporate Source/Institution: DePaul University, School of Computer
         Science, Telecommunications, and Information Systems (1343)
   Adviser: Thomas Muscarello
   Source: VOLUME 61/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
         PAGE 2616. 75 PAGES
   Descriptors: COMPUTER SCIENCE ; INFORMATION SCIENCE
   Descriptor Codes: 0984; 0723
   ISBN: 0-599-77079-1

     The characteristics of very large historical **databases** are
significantly different than common transaction processing systems. Large
quantities of data are typically “loaded” by a single
individual at a predetermined time. Then, the **database** becomes
effectively “read-only” until the next load event occurs.
Frequently, obsolete periods of data, approximately an equal amount to the
load, are unloaded from the **database** .
     This thesis addresses the specific requirements of constructing **DBMS**
technologies to achieve acceptable performance in these applications.
Although related topics of concern are described, we concentrate on
secondary   indexing issues. The most common forms of relational **database**
 indexing are discussed, including the B-Tree and its derivatives, bit
maps, and inverted lists. Each index is evaluated for suitability for use
in very large **databases** , with a criteria consisting of physical index
size and scalability, maintainability, access IOs, cardinality sensitivity,
parallelization effectiveness, and usefulness in multiattribute queries,
including whether the index allows dynamic intersection or union
operations.
     The use of single attribute inverted list indexes, combined with
dynamic bit maps is described. We demonstrate that this combination
indexing method yields the smallest physical index, while providing
complete capability to intersect or union indexes dynamically to resolve a
multi-attribute query. The goal of this method is to eliminate completely
the combinatorial explosion in **index** storage and **maintenance** when many
attributes of a relation require frequent referencing.
     This is an optimization problem. If the **DBMS** cannot answer a query
within a reasonable amount of time, then it does not provide a solution for
the problem. The solution described here is an example of ultimate
dynamism, with only the most basic information stored. It is an enabling
technology, allowing queries to execute which would be prohibitive without
this solution.
     This research provides a significant contribution to the analysis of
very large historical **databases** . Technology exists today to store
extremely large historical **databases** , but indexing technology has not
kept pace with the ability to store the **database** . Many large **databases**
have failed to provide the functionality due to unwieldy indexing
requirements. Our indexing method permits efficient **database** access for
queries that cannot be predetermined.

6471290   INSPEC Abstract Number: C2000-02-7250N-037
   Title: **Experimentation with an information filtering system that combines cognitive and sociological filtering integrated with** user **stereotypes**

   Author(s): Shapira, B.; Shoval, P.; Hanani, U.
   Author Affiliation: Dept. of Ind. Eng. & Manage., Ben-Gurion Univ. of the Negev, Beer-Sheva, Israel
   Abstract: A dual-method model and system for filtering and ranking the relevance of information is presented. The two methods are cognitive filtering and sociological filtering, which is integrated with **user** stereotypes. A prototype system was developed to test the applicability of the model for filtering e-mail messages, and experiments were run to determine the effects of combining the two methods in **various   filtering** strategies. The results reveal that, although cognitive filtering alone is usually more effective than sociological filtering alone, the combination of both methods yields better results than using either method **individually** . Ordinarily, the best filtering strategies are achieved when the two methods are used in parallel, or when cognitive **filtering** is the **primary** method, followed by sociological filtering. We conclude that the optimal filtering strategy of combining cognitive and sociological filtering is stereotype-dependent, i.e. for each **user** stereotype there may be a specific combination of the cognitive and sociological filtering that yields the best results. (23 Refs)
   Subfile: C
   Descriptors: cognitive systems; data mining; online front-ends; psychology; relevance feedback; social sciences computing; **user** modelling ; very large **databases**
   Identifiers: information filtering system; cognitive filtering; sociological filtering; **user** stereotypes; dual-method model; information relevance ranking; electronic mail message filtering; filtering strategies; information retrieval; collaborative filtering; content-based filtering; cluster analysis; **user** profiles; indexing
   Class Codes: C7250N (Search engines); C6170K (Knowledge engineering techniques); C6180 (User interfaces); C7810 (Social and behavioural sciences computing)

5119713   INSPEC Abstract Number: C9601-6110B-013
 Title: Ciao: a graphical navigator for software and document repositories
   Author(s): Chen, Y.-F.R.; Fowler, G.S.; Koutsofios, E.; Wallach, R.S.
   Author Affiliation: AT&T Bell Labs., Murray Hill, NJ, USA
   Conference Title: Proceedings. International Conference on Software
Maintenance (Cat. No.95CB35845)   p.66-75
   Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA
   Publication Date: 1995 Country of Publication: USA   xii+375 pp.
   ISBN: 0 8186 7141 6
   U.S. Copyright Clearance Center Code: 1063-6773/95/$04.00
   Conference Title: Proceedings of International Conference on Software
Maintenance
   Conference Sponsor: IEEE Comput. Soc. Tech. Council on Software Eng
   Conference Date: 17-20 Oct. 1995   Conference Location: Opio, France
   Language: English   Document Type: Conference Paper (PA)
   Treatment: Practical (P)

   Abstract: Programmers frequently have to retrieve and link information
from various software documents to accomplish a maintenance task. Ciao is a
graph-based navigator that helps programmers query and browse structural
connections embedded in different software and document repositories. A
repository consists of a collection of source documents with an associated
 database that describes their structure. Ciao supports repositories
organized in an architecture style called Aero, which exploits the duality
between a class of entity-relationship (ER) **databases** and directed
attributed graphs (DAG). **Database** queries and graph analysis **operators**
 in Aero are plug- **compatible** because they all take an ER **database** and
produce yet another ER **database** by **default** . **Various** presentation
 filters generate graph views, source views, and relational views from any
 compatible ER **database** . The architecture promotes the construction of
successively more complex **operators** using a notion of virtual **database**
 pipelines. Ciao has been instantiated for C and C++ program **databases** ,
and program difference **databases** . The latter allows programmers to
explore program structure changes by browsing and expanding graphs that
highlight changed, deleted, and added entities and relationships. The
unifying ER model under ciao also allows **users** to navigate different
software repositories and make necessary connections. We have linked
program difference **databases** and modification request (MR) **databases** so
that **users** can investigate the connections between MRs and affected
entities. Ciao has been applied to several large communications software
projects and we report experiences and lessons learned from these
applications. (32 Refs)
   Subfile: C

4830446   INSPEC Abstract Number: C9501-4250-009
   **Title: A new technique for enhancing linked-list data retrieval:
reorganize data using artificially synthesized queries**
   Author(s): Oommen, B.J.; Ng, D.T.H.
   Author Affiliation: Sch. of Comput. Sci., Carleton Univ., Ottawa, Ont.,
Canada
   Journal: Computer Journal   vol.37, no.7   p.598-609
   Publication Date: 1994 Country of Publication: UK
   CODEN: CMPJA6 ISSN: 0010-4620
   Language: English   Document Type: Journal Paper (JP)
   Treatment: Theoretical (T)
   Abstract: Let R=(R/sub 1/,R/sub 2/,...,R/sub N/) be a set of **data
elements** . The elements of R are accessed by **users** of the system
according to a fixed but unknown distribution S=(s/sub 1/,s/sub
2/,...,s/sub N/), referred to as the **users** ' query distribution. We
consider the problem of organizing data so as to optimize its retrieval.
However, rather than organizing the data according to Q (the stream of
queries presented by the **user**), we suggest a scheme by which the data is
organized based on a synthesized query stream Q'. This synthesized stream
possesses an underlying distribution, S'. Thus, in effect, the data
organization is achieved according to the distribution S' and so, in one
sense, the **user** 's query distribution is modified without his knowing it.
Furthermore, we show how this transformation can be done in such a way that
the data storage achieved according to 'S' is superior to that achieved if
the data was stored according to the distribution S. The module which
achieves this transformation is called a distribution changing technique
(DCT) filter. We present the theory of DCT filters in its mathematical
generality. We show that a DCT filter can be represented as a stochastic
Mealy automaton. **Various** DCT **filters** are catalogued and a filter F* is
presented. This **filter** transforms the **original** distribution
expediently, and thus accentuates the information contained in the **user** 's
distribution. The problem of cascading DCT filters has also been studied,
and extensive computational and simulation results have been included which
justify the presented theoretical results. (33 Refs)
   Subfile: C
   Descriptors: data structures; **database** theory; filtering theory; finite
automata; list processing; optimisation; query formulation; query
processing; stochastic automata
   Identifiers: linked-list data retrieval; data reorganization;
artificially synthesized queries; **data· elements** ; **users** ' query
distribution; retrieval optimization; synthesized query stream; data
storage; distribution changing technique filter; stochastic Mealy automaton
; DCT filter cascading; simulation
   Class Codes: C4250 (Database theory); C7250R (Information retrieval
techniques); C4220 (Automata theory); C6130 (Data handling techniques);
C6120 (File organisation)

04132642   INSPEC Abstract Number: C9205-6115-080
  Title: THES-MAKER: a program for the semi-automated building of thesauri
  Author(s): Ciampi, C.
  Author Affiliation: CNR-Idg, Florence, Italy
  Conference Title: Documentary Languages and Databases. Papers from the
Rome Conference   p.51-72
  Editor(s): Negrini, G.; Farnesi, T.; Benediktsson, D.
  Publisher: Indeks Verlag, Frankfurt/Main, Germany
  Publication Date: 1991 Country of Publication: West Germany   271 pp.
  ISBN: 3 88672 022 5
  Conference Date: 3-4 Dec. 1990   Conference Location: Rome, Italy
  Language: English   Document Type: Conference Paper (PA)
  Treatment: Practical (P)
  Abstract: Illustrates   the   THES-MAKER software package (written in
CLIPPER) designed for the semi-automated building of thesauri on (MS-DOS
 compatible) **personal** computers. Its aim is to assist anyone who is
drafting a thesaurus during all phases of designing, developed, managing
and expanding the relations within the thesaurus and printing its **various**
   indices . The **main** features of this **user** -friendly program include
also the import and export of data to/from other operational environments (
 data   **bank**   management systems, text editors, etc.); the management of
multi-hierarchical thesauri; constructing more than one micro thesaurus
separately, and, if desired, merging them into a single thesaurus. (8
 Refs)
  Subfile: C
  Descriptors: software packages; software tools; thesauri
  Identifiers: semi-automated thesauri development; software tools;
software design; data import; data export; THES-MAKER; software package;
CLIPPER; thesauri; **personal** computers
  Class Codes: C6115 (Programming support); C7240 (Information analysis
and indexing)

03960757   INSPEC Abstract Number: C91059257
  Title: Analysis of a deferred and incremental update strategy and secondary   indexes
  Author(s): Omiecinski, E.; Wei Liu; Akyildiz, I.
  Author Affiliation: Coll. of Comput., Georgia Inst. of Technol., Atlanta, GA, USA
  Journal: Information Systems   vol.16, no.3   p.345-56
  Publication Date: 1991 Country of Publication: UK
  CODEN: INSYD6 ISSN: 0306-4379
  U.S. Copyright Clearance Center Code: 0306-4379/91/$3.00+0.00
  Language: English   Document Type: Journal Paper (JP)
  Treatment: Practical (P)

  Abstract: Many relational **database** systems use **secondary indexes** to reduce the access cost of retrieving data in response to a **user** 's query. However, a **secondary   index** incurs an **additional** cost due to the update **maintenance** of the **index** . In some cases, this cost may be greater than the cost to update the desired tuples. The paper examines a deferred index update strategy which does an incremental update of the index. The approach introduced, which uses a differential file, can reduce the cost of updating a **secondary   index** by slightly increasing the cost that will be associated with searching the **secondary   index** . This is true as long the differential file size does not become too large. As such, a model is presented for solving the distribution of the size of the differential file. The maximum size of the differential file is predicted by interpreting this distribution. In addition, the analytical results are compared with simulation results. (15 Refs)
  Subfile: C
  Descriptors: indexing; relational **databases**
  Identifiers: incremental update strategy; **secondary   indexes** ; relational **database** systems; update maintenance; deferred index update strategy; **secondary   index** ; differential file size
  Class Codes: C6160D (Relational DBMS)

```
Set      Items    Description
S1       21029    REARRANG? OR RESORT? OR REFILTER? OR ACF
S2       29289    (DEFAULT? OR INITIAL? OR ORIGINAL? OR MAIN? OR PRIMARY?)(2-
                  N)(SORT? OR ARRANGE? OR ISM OR FILTER? OR INDEX? OR INDICE?)
S3       59751    (SECOND? OR ADDITIONAL? OR NEXT? OR ANOTHER? OR AGAIN? OR -
                  2ND? OR VARIOUS?)(2N)(ISM OR SORT? ? OR FILTER? OR ARRANGE? OR
                  INDEX? OR INDICE?)
S4       80648    S1 OR S3
S5       2895320  REDUNDANT? OR DUPLICAT? OR REPEAT? OR AGAIN? OR SAME? OR S-
                  IMILAR? OR IDENTICAL? OR COMPATIBLE?
S6       646214   DATA()ELEMENT? OR FIELD? OR TAG? OR METADATA? OR LABEL? OR
                  META()(DATA OR INFORMATION)
S7       120299   (OUTPUT? OR DEFAULT? OR INPUT OR (IN OR OUT)()PUT? ?)(3N)(-
                  PORT? ? OR COMMPORT? OR  BUS OR LINE? OR ACCESS?)
S8       1499797  RECORD? ? OR OBJECT? OR TEXT?
S9       145851   DATAMINE? OR DATA()(MINE? OR WAREHOUSE? OR BASE? OR BANK?)
                  OR OODB OR DBMS OR RDBMS OR DB OR DATABASE? OR DATABANK?
S10      731      (MULTILEVEL? OR TIER? OR HIERARCH?)(3N)(RESULT? OR SEARCH?
                  OR SEEK? OR QUER? OR FILTER? OR SORT?)
S11      2235704  USER? OR INDIVIDUAL? OR MEMBER? OR OPERATOR? OR PERSONAL?
S12      2071     S2 AND S4
S13      25       S12 AND S9
S14      1        S12 AND S10
S15      21       (S13 OR S14) AND IC=G06F?
S16      18       (S2 OR S3) AND S10
S17      173      (S2 OR S3) AND S9 AND S5
S18      26       S17 AND (S6 OR S7)
S19      68       S13 OR S14 OR S15 OR S16 OR S18
S20      45       S19 AND IC=G06F?
S21      45       IDPAT (sorted in duplicate/non-duplicate order)
S22      45       IDPAT (primary/non-duplicate records only)
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200404
         (c) 2004  Thomson Derwent
```

Foreign Patent Databases

015834130   **Image available**
WPI Acc No: 2003-896334/200382
XRPX Acc No: N03-715253
   Web pages query processing method, involves optimizing query by
   filtering **documents from** hierarchal **set that will produce an empty**
   result and maintaining indexing **structure for tree matching**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: MANI M; SUNDARESAN N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6654734	B1	20031125	US 2000652328	A	20000830	200382	B

Priority Applications (No Type Date): US 2000652328 A 20000830
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6654734	B1		16	G06F-017/30	

Abstract (Basic): US 6654734 B1
     NOVELTY - The method involves optimizing query by **filtering**
   documents from **hierarchal** set that will produce an empty result and
   maintaining an **indexing** structure for tree matching. The structure
   has a value index and a structure index relating to document content
   and a tree structure pattern of the filtered document, respectively. A
   link index links the relationships between the non- **filtered** document
   and the **hierarchical** document.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
   query system for **querying** a set of **hierarchical** documents.
     USE - Used for processing query utilized in indexing and caching
   web pages.
     ADVANTAGE - The method utilizes schema-based optimization so as to
   minimize the number of documents on which query is done by eliminating
   the redundant conditions in the query and hence simplifying the
   construction cost. The method utilizes index optimization so as to
   reduce the number of steps in the query process.
     DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram
   representing a query process.
     pp; 16 DwgNo 6/6
Title Terms: WEB; PAGE; QUERY; PROCESS; METHOD; OPTIMUM; QUERY; FILTER;
   DOCUMENT; SET; PRODUCE; EMPTY; RESULT; MAINTAIN; INDEX; STRUCTURE; TREE;
   MATCH
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

015741273   **Image available**
WPI Acc No: 2003-803474/200375
XRPX Acc No: N03-644123
Query processing method in relational database **management system,
involves retrieving corresponding information from** database **based on
index information having multilevel granularity or composition**
Patent Assignee: BHATTACHARJEE B (BHAT-I); CRANSTON L A (CRAN-I); HSUN LAI
   T W (LAIT-I); HURAS M A (HURA-I); MALKEMUS T R (MALK-I); PADMANABHAN S K
   (PADM-I); TRUUVERT K (TRUU-I)
Inventor: BHATTACHARJEE B; CRANSTON L A; HSUN LAI T W; HURAS M A; MALKEMUS
   T R; PADMANABHAN S K; TRUUVERT K
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030195869	A1	20031016	US 2002122460	A	20020415	200375	B

Priority Applications (No Type Date): US 2002122460 A 20020415
Patent Details:

Patent No	Kind Lan Pg	Main IPC	Filing Notes
US 20030195869	A1 19	G06F-007/00	

Abstract (Basic): US 20030195869 A1
      NOVELTY - The method involves retrieving corresponding information
   from a relational **database** , based on index information of query
   having different granularity and/or composition.
      DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
   storage device storing query information processing program.
      USE - For processing queries in **database** management system (**DBMS**
) e.g. relational **database** management system (**RDBMS**).
      ADVANTAGE - Queries are processed efficiently using simple
   technique.
      DESCRIPTION OF DRAWING(S) - The figure shows an explanatory view of
   the relation between the **primary** block **index** and the **secondary**
   block **index** .
      primary block **index** (301)
      table (302)
      secondary block **index** (303)
      pp; 19 DwgNo 3/9
Title Terms: QUERY; PROCESS; METHOD; RELATED; **DATABASE** ; MANAGEMENT;
   SYSTEM; RETRIEVAL; CORRESPOND; INFORMATION; **DATABASE** ; BASED; INDEX;
   INFORMATION; MULTILEVEL; GRANULE; COMPOSITION
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

014106081   **Image available**
WPI Acc No: 2001-590293/200167
XRPX Acc No: N01-439697
   Maintaining **very large** indexes **involves converging each low and high
   limit pointer pair which is used to determine insertion point into**
   second   sort **vector and to merge first and** second   sort **vectors**
Patent Assignee: JOINT TECHNOLOGY CORP (JOIN-N)
Inventor: CONSENS M P; SNIDER T
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2325252	A1	20010509	CA 2325252	A	20001107	200167	B
US 6275822	B1	20010814	US 99438128	A	19991109	200167	
CA 2325252	C	20031028	CA 2325252	A	20001107	200373	

Priority Applications (No Type Date): US 99438128 A 19991109
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2325252	A1	E	41	G06F-017/30	
US 6275822	B1			G06F-017/30	
CA 2325252	C	E		G06F-017/30	

Abstract (Basic): CA 2325252 A1
     NOVELTY - A location data structure is created and then initialized
by defining a low limit pointer and a high limit pointer. Successive
refinement passes are made through the first and **second   sort**
vectors until each low and high limit pointer pair has converged. The
corresponding converged low and high limit pointer pair is used to
determine an insertion point into the **second   sort** vector and to
merge the vectors.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
computer program product.
     USE - For **database** systems.
     ADVANTAGE - Merges sort vector structures with limited use of sort
vector self-referential pointers. **Maintains** large **indexes** by
sequential processing to avoid random access to potentially large index
structures. Limits accessing of structures on disk and provides
sequential access pattern to structures when merging data structures
which exceed capacity of main memory of computer system.
     DESCRIPTION OF DRAWING(S) - The figure is the block diagram
representing the architecture of an index merger.
     pp; 41 DwgNo 1/10
Title Terms: MAINTAIN; INDEX; CONVERGE; LOW; HIGH; LIMIT; POINT; PAIR;
  DETERMINE; INSERT; POINT; SECOND; SORT; VECTOR; MERGE; FIRST; SECOND;
  SORT; VECTOR
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): **G06F-007/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013922480   **Image available**
WPI Acc No: 2001-406693/200143
XRPX Acc No: N01-300752
   Indexes merging method for database **system, involves merging identified
   indexes to form a merged index set consuming less storage space than**
   initial **set of** indexes
Patent Assignee: MICROSOFT CORP (MICR-N)
Inventor: CHAUDHURI S; NARASAYYA V
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6169983	B1	20010102	US 9887617	A	19980530	200143	B

Priority Applications (No Type Date): US 9887617 A 19980530
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6169983	B1		17	G06F-017/30	

Abstract (Basic): US 6169983 B1
      NOVELTY - A pair of indexes which meet a merge criteria from an
   initial set of **indexes** , is identified. The identified indexes are
   merged to form merged index set consuming less storage space than
   initial set of **indexes** .
      DETAILED DESCRIPTION - Queries against the **database** are executed
   using merged index set, if storage space consumed by merged index set
   is preset percentage less than that of **initial** set of **indexes** .
   Queries **against** the **database** are executed using merged index set,
   if an estimated cost to execute queries of work load for merged index
   set is greater than estimated cost to execute the queries of work load
   for **initial** set of **indexes** . An INDEPENDENT CLAIM is also included
   for indexes merging program.
      USE - For executing queries against a **database** .
      ADVANTAGE - Enables to minimize the amount of storage space
   consumed by the indexes, which in turn minimizes the cost of executing
   queries of work load against the **database** using the indexes.
      DESCRIPTION OF DRAWING(S) - The figure shows the index merge tool
   and **database** server for **database** system.
      pp; 17 DwgNo 4/7
Title Terms: INDEX; MERGE; METHOD; **DATABASE** ; SYSTEM; MERGE; IDENTIFY;
  INDEX; FORM; MERGE; INDEX; SET; CONSUME; LESS; STORAGE; SPACE; INITIAL;
  SET; INDEX
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013697084   **Image available**
WPI Acc No: 2001-181308/200118
XRPX Acc No: N01-129248
  **Instruction transfer between computer system involves loading instruction
  from client computer system into RAM of server computer system when
  computer application in server is in partially executed state**
Patent Assignee: NOVELL INC (NOVE-N)
Inventor: WINKEL J C
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 6151709   A   20001121 US 9823822   A   19980213 200118 B

Priority Applications (No Type Date): US 9823822 A 19980213
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 6151709   A   14 G06F-009/445

Abstract (Basic): US 6151709 A
      NOVELTY - Instruction set (248) is transferred from client to
   server computer system after executing function associated with
   primary   index structure. The instructions for interacting with
   computer application (254) in server computer system in transferred
   set, is loaded into RAM of server. When computer application is in
   partially executed state, computer application initiates execution of
   instruction.
      DETAILED DESCRIPTION - During execution of the instructions
   transferred to server computer system from client computer system, the
   pointer in the **secondary   index** structure created in server is
   stored in location of RAM where instructions are stored and the pointer
   stored in **primary   index** structure is replaced with pointer in the
   secondary   index structure and the execution of function associated
   with **primary   index** structure is terminated. The transferred
   instructions are operative to extract information from server, to
   modify data stored in computer application, to disable one of function
   of server, and to add new functions to the already existing functions.
      An INDEPENDENT CLAIM is also included for computer system for
   transferring instruction between computer system.
      USE - For instruction transfer between computer system connected
   through token ring, Ethernet, telephone modem connection, radio or
   microwave connection, in client server architecture for electronic
   messaging, document management, back up, directory services **data
   base** applications, during diagnosis and/or repair of computer system
   or software problems at server computer.
      ADVANTAGE - Facilitates diagnosis and/or repair of computer systems
   or software problems at server computer using simple technique. During
   diagnosis original code for server function is not over written, and
   the server application can be returned to its original state, if
   desired upon completion of diagnosis system thereby improves security
   concerns.
      DESCRIPTION OF DRAWING(S) - The figure shows schematic illustration
   of instruction set and server application.
      Computer instruction (248)
      Computer application (254)
      pp; 14 DwgNo 6/6
Title Terms: INSTRUCTION; TRANSFER; COMPUTER; SYSTEM; LOAD; INSTRUCTION;
   CLIENT; COMPUTER; SYSTEM; RAM; SERVE; COMPUTER; SYSTEM; COMPUTER; APPLY;
   SERVE; EXECUTE; STATE
Derwent Class: T01
International Patent Class (Main): **G06F-009/445**
File Segment: EPI

 22/5/23   (Item 23 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012347136   **Image available**
WPI Acc No: 1999-153243/199913
Related WPI Acc No: 1999-166961; 1999-214402; 2001-234122
XRPX Acc No: N99-110516
  Hybrid query formulating and executing apparatus for heterogeneous
database
Patent Assignee: NOVELL INC (NOVE-N)
Inventor: BRADSHAW W B; DAVIS J R; HODGKINSON A A; JENSEN B L; PATHAKIS S W
 ; SANDERS D S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5870739	A	19990209	US 9626892	A	19960920	199913	B
			US 96751540	A	19961115		

Priority Applications (No Type Date): US 9626892 P 19960920; US 96751540 A
 19961115
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5870739	A		28	G06F-017/30	Provisional application US 9626892

Abstract (Basic): US 5870739 A
     NOVELTY - A query engine module to be executed by processor is
stored in memory device for building hybrid query structure and
retrieving indicia of records satisfying query.
     DETAILED DESCRIPTION - Arbitrary structured records comprising text
 field of predetermined size and **database**   **field** are stored in
memory device (14). **Database** comprises full text index and **database**
index for identifying text **field** and **database**   **field** . Simple and
compound alternate key indices are included in **database** . A hybrid
query structure having full text and non- full text selection
criterions corresponding to full text and **database** indices are stored
in memory device. INDEPENDENT CLAIMS are included for the following:
     (a)
     (b) method of formulating and executing hybrid query **against**
records in **database** ;
     (c) memory device for storing data structures corresponding to
hybrid query
     .
     USE - For structuring, indexing and executing queries for
heterogeneous **database** .
     ADVANTAGE - Supports aggregation and selection operators that act
on sets of multiple values to yield single value. Creates and
maintains compound alternate **indices** on **database** records. Supports
optimization of disjunctive query using compound alternate indices.
     DESCRIPTION OF DRAWING(S) - The figure shows schematic
representation of query executing apparatus for heterogeneous **database**
     .
     Memory device (14)
     pp; 28 DwgNo 1/14
Title Terms: HYBRID; QUERY; FORMULATION; EXECUTE; APPARATUS; HETEROGENEOUS;
  DATABASE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012141148   **Image available**
WPI Acc No: 1998-558060/199848
Related WPI Acc No: 2000-171718
XRPX Acc No: N98-435075
   **Data classifying and indexing method for managing hierarchies in object
   orientated programming - involves reading data groups containing key
   fields of items; generating key number and index with item indicators
   and adjusting or storing pointer to data group within stored index, based
   on checking of indicators** against **stored** index
Patent Assignee: SAMPSON W C (SAMP-I)
Inventor: SAMPSON W C
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2202217	A	19980518	CA 2202217	A	19970409	199848	B

Priority Applications (No Type Date): US 96751741 A 19961118
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2202217	A		36	G06F-007/24	

Abstract (Basic): CA 2202217 A
      The method involves reading a group of data entry records from a
mass storage device of raw data. These records comprise key **fields**
that contain items. A key number is generated representing the total
number of key **fields** in the data entry records group. An index is
then created with a predetermined number of key **fields** equal to the
key number. The items in the key **fields** are mapped generating item
indicators in each of the key **fields** of the index. (e.g. record group
ADE is mapped to cell (25) in 3-D matrix (21) with key **fields** A,D,
and E).
      A stored index is checked to see if any of the item indicators
exist in it already; if they do not then a pointer that enables the
data entry record group to be located is stored in the index; otherwise
the already present pointer scheme is altered to enable the record
group to be located.
      USE - Object orientated **databases** ; **secondary** **indexes** for log
files and relational **database** tables; real time parts analysis,
schedules, quality reports, e.g. in stock room receiving deliveries.
      ADVANTAGE - Achieves true object oriented organisation using
minimum amount of memory space.
      Dwg.1/4
Title Terms: DATA; CLASSIFY; INDEX; METHOD; MANAGE; OBJECT; ORIENT; PROGRAM
 ; READ; DATA; GROUP; CONTAIN; KEY; **FIELD** ; ITEM; GENERATE; KEY; NUMBER;
 INDEX; ITEM; INDICATE; ADJUST; STORAGE; POINT; DATA; GROUP; STORAGE;
 INDEX; BASED; CHECK; INDICATE; STORAGE; INDEX
Derwent Class: T01
International Patent Class (Main): **G06F-007/24**
File Segment: EPI

22/5/27   (Item 27 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010905033   **Image available**
WPI Acc No: 1996-401984/199640
Related WPI Acc No: 1999-561203
XRPX Acc No: N96-338710
   Consistency between first and second table index   maintaining -
   determining if second   index **key value in index entry to be inserted
   is already present in** second   index **table if confirmed, then rejecting
   insertion**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CHOY D M; MOHAN C
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5551027	A	19960827	US 931491	A	19930107	199640	B
			US 95526723	A	19950911		

Priority Applications (No Type Date): US 931491 A 19930107; US 95526723 A
   19950911
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5551027	A		20	G06F-009/355	Cont of application US 931491

Abstract (Basic): US 5551027 A
      The method involves determining if a **second   index** key value in
   an index entry to be inserted is already present in a **second   index**
   table. If the **second   index** key value in the index entry to be
   inserted is already present in the **second   index** table, then
   rejecting the insertion. If the **second   index** key value in the index
   entry to be inserted is not already present in the **second   index**
   table, then it requires inserting the index entry into the **second
   index** table, followed by determn if the first index key value which
   relates to the **second   index** key value is already present in the
   first index table.
      If the first index key value which relates to the **second   index**
   key value is already present, it entails deleting the inserted **second
    index** entry from the **second   index** table and rejecting the
   insertion. Subsequently it requires determining if the first index key
   value which relates to the **second   index** key value is present in the
   first index table.
      USE/ADVANTAGE - In indexing mechanism in **database** management
   system. Enhanced efficiency of complex query evaluation and **indexed
   maintenance** . Assures consistency between local and coarse global
   indexes.
      Dwg.1/4
Title Terms: CONSISTENCY; FIRST; SECOND; TABLE; INDEX; MAINTAIN; DETERMINE;
   SECOND; INDEX; KEY; VALUE; INDEX; ENTER; INSERT; PRESENT; SECOND; INDEX;
   TABLE; REJECT; INSERT
Derwent Class: T01
International Patent Class (Main): **G06F-009/355**
International Patent Class (Additional): **G06F-012/00**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010313742   **Image available**
WPI Acc No: 1995-215000/199528
XRPX Acc No: N95-168625
   **Tabular or graphical information additional report generating - selecting
   data element on screen primary report using either mouse or keyboard,
   then activating command by selecting either from menu, or typing command
   key-stroke or clicking mouse**
Patent Assignee: INTUIT INC (INTU-N)
Inventor: YUEN L
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5423033	A	19950606	US 92954335	A	19920930	199528	B

Priority Applications (No Type Date): US 92954335 A 19920930
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5423033	A		12	G06F-015/40	

Abstract (Basic): US 5423033 A
      The method involves providing a **primary** report **filter** having
   attributes with specified values, then applying the **primary** report
   filter to the **database** of transactions to produce a primary report.
   The latter contains at least one dynamically created data element, each
   such data element summarizing a subset of selected transactions from
   the **database** of transactions, but not existing as a transaction in
   the **database** .
      The method entails displaying the primary report on the display,
   then receiving a user input selecting one of the data elements
   contained in the primary report. Subsequently a **secondary** report
   filter is generated from the selected data element.
      USE/ADVANTAGE - For generating reports based on stored used
   specified parameters. Easier generation of secondary report contg more
   detailed information covering specific data elements on screen without
   providing additional report parameters.
      Dwg.7/7
Title Terms: TABULAR; GRAPHICAL; INFORMATION; ADD; REPORT; GENERATE; SELECT
   ; DATA; ELEMENT; SCREEN; PRIMARY; REPORT; MOUSE; KEYBOARD; ACTIVATE;
   COMMAND; SELECT; MENU; TYPING; COMMAND; KEY; STROKE; CLICK; MOUSE
Derwent Class: T01
International Patent Class (Main): **G06F-015/40**
File Segment: EPI

009924099   **Image available**
WPI Acc No: 1994-191810/199423
XRPX Acc No: N94-150907
**Electronic encyclopaedia presenting articles w.r.t. user query - employs
user controlled** hierarchy of filter **parameters, with user selecting
subset of identifying parameters by which articles are classified**
Patent Assignee: FRANKLIN ELECTRONIC PUBLISHERS (FRAN-N)
Inventor: DECKER J E; MAYER R; YIANILOS P N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5321609	A	19940614	US 92889180	A	19920527	199423	B

Priority Applications (No Type Date): US 92889180 A 19920527
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5321609	A		8	G06F-015/38	

Abstract (Basic): US 5321609 A
     The electronic encyclopedia having subject matter search capability
with a keyboard and a display screen for presenting text articles
relevant to a user entered search term has a set of N filter
parameters. Each text article in the encyclopedia is identified by at
least one of the parameters, which are classified into M Groups. A user
actuated first keyboard device permits a user to select a number of the
M Groups, and a user actuated second keyboard device permits a user to
select a number of the N parameters within each selected Group. All
members of a user selected set of filter parameters that are within a
single Group constitute a Group subset, and parameters within each
subset automatically act additively to provide the union of the text
articles identified by each selected filter parameter.
     The subset of selected filter parameters of any of the Groups
automatically acting with the subset of selected filter parameters of
any other of the groups to provide only the text articles which are
common to the subsets. Selection of **additional filter** parameters
with a Group tends to increase the number of text articles selected and
selection of filter parameters from multiple Groups tends to decrease
the number of text articles selected.
     ADVANTAGE - Improved presentation of data to user with focussing on
most pertinent articles.
     Dwg.1/5
Title Terms: ELECTRONIC; PRESENT; ARTICLE; USER; QUERY; EMPLOY; USER;
  CONTROL; HIERARCHY; FILTER; PARAMETER; USER; SELECT; SUBSET; IDENTIFY;
  PARAMETER; ARTICLE; CLASSIFY
Derwent Class: T01
International Patent Class (Main): **G06F-015/38**
File Segment: EPI

DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

05583438   **Image available**
DRAWING PREPARING DEVICE AND ITS METHOD

PUB. NO.:   09-198238 [JP 9198238 A]
PUBLISHED: July 31, 1997 (19970731)
INVENTOR(s):   YOSHIZAWA RYUICHI
APPLICANT(s):   CANON INC [000100] (A Japanese Company or Corporation), JP
                (Japan)
APPL. NO.:   08-007831 [JP 967831]
FILED: January 19, 1996 (19960119)
INTL CLASS: [6] **G06F-009/06 ; G06F-017/50**
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);
                45.4 (INFORMATION PROCESSING -- Computer Applications)

ABSTRACT

PROBLEM TO BE SOLVED: To automatically prepare plural state transition
drawings on a sheet of paper by detecting continuous drawings out of
drawings of a **2nd   sort** based upon **hierarchical** relation and
correspondence relation between a specific drawing out of plural drawings
of a 1st sort and a drawing of the **2nd   sort** and integrating the
detected continuous drawings of the **2nd   sort** as one drawing.

SOLUTION: Hierarchical depth of state transition diagrams to be coupled is
specified through a picture input part 11 and the specified hierarchical
information is stored in a hierarchy specification storing device 14. Data
flow diagrams to be drawings of the 1st sort and state transition diagrams
to be drawins of the **2nd   sort** which are included up to the specified
hierarchical depth stored in the device 14 are confirmed, drawings to be
integrated are detected and information indicating their relation is stored
in a hierarchical correspondence relation storing device 16. A coupled
state dependence relation preparing part 17 judges which state transition
diagrams are to be coupled based upon the information stored in the device
16 and prepares a coupled drawing. Consequently plural state transition
diagrams can be automatically integrated on a sheet of paper to prepare an
integrated drawing.

DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

04979213   **Image available**
INFORMATION PIGEONHOLING SYSTEM

PUB. NO.:   07-271813 [JP 7271813 A]
PUBLISHED: October 20, 1995 (19951020)
INVENTOR(s):   OGAKI TAKESHI
APPLICANT(s):   TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
                 (Japan)
APPL. NO.:   06-062472 [JP 9462472]
FILED: March 31, 1994 (19940331)
INTL CLASS: [6] **G06F-017/30**
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 42.5
                 (ELECTRONICS -- Equipment)

                            ABSTRACT
PURPOSE: To easily recognize a multi-sorting state and to easily execute
the **maintenance** of a **sorting** system by providing this information
pigeonholing system with a means for mutually linking optional nodes in
hierarchical structure and a means for detecting the existence of a link
from a partial hierarchical structure formed under a hierarchical structure
management system to the external.

CONSTITUTION: A hierarchical structure managing part 4 sets up, adds,
changes, or deletes master-slave relation between nodes in **hierarchical**
 structure constituting a **sorting** system. A link relation managing part 5
sets up, adds, changes, or deletes relation between nodes in order to
manage multi-sorting. In respect to multi-sorting management, the position
of one document in the hierarchical management structure is defined and
sorted by plural methods. System software is constituted so as to detect a
part (closed link structure inspecting part 6) for inspecting closed link
structure indicating documents linked with each other when a closed link
exists in current hierarchical management structure and the existence of
the closed link.

AddressPro v4.0 (c) Copyright January 2000 by ZingWare

Contents

+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +
+   +
+ Different sort schemes and view fields for different categories !! +
+ (read par. 6.2 for details)   +
+   +
+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +

1. Overview
   ----
5 stars rated by ZDNET ! and 5 cows rated by TUCOWS! A supercharged Address Book
enhancement featuring a robust sorting mechanism, a must have Search & Replace
engine, new display sorting capabilities, and new record duplication and contact
management features giving the user unlimited possibilities with the built in
address book.

The application works with the original database of the built in Address Book.
The user is allowed to choose any field to be the main sorting & display field
(first name, home phone, fax, address, city.... and, of course, company or last
name).
The user may choose any field to be the second sort & display field - not only
last name or first name.
The user has the choice of putting any field in the phone display field - not
only phone fields.
A Quick Bar allows tapping on the first letter of the main sorting field - this
will highlight the first record with this letter immediately (Graffity - is an
option now!).
Record duplication is now supported.
Contact management is supported.
A powerful search & replace engine is available for quick searches and
automating tedious editing job.

2. Content of the Zip file

The following files are included:

- AddressPro.prc (The program)
- Readme.txt (This file)

3. System Requirements

- PalmOs v3.0 or above.
(Which means Palm III, Palm IIIx, Palm V or a PalmPilot with the 2MB upgrade).

4. Installing/Upgrading

1st OF ALL - REMOVE EARLIER VERSIONS !!!!!
To install this program, use your Palm device install tool and Hotsync to load
the AddressPro.prc file (after you unzipped it from the Zip file) into the Palm
device.

5. Uninstalling

To uninstall, simply, delete the AddressPro application from your device.
(Most Probably when you move back to using the original Address Book you will
get an unsorted address list - in order to sort it again go to the Address Book
menu , choose Options, than choose Preferences and tap the "Last name, First
name" button if it is not highlighted ,if it is highlighted tap the "Company,
Last name" button and than tap the "OK" button - this will resort the address
list).

6. Using the Program
   ==================
** This section will emphasize only the enhancements, the rest of the operations
are either self explanatory or similar in nature to the old Address Book.

6.1 The new look of the address list

- The address list now has a Quick Bar in the bottom of the screen made of the
English alphabet.
- The address list has a titles row directly above the list.
- The Sorting fields title is a popup list which lets you choose between pre-
selected sorting schemes or create a new one.
 - The Phone field title is a popup list which lets you choose the desired field
to be displayed instead of the phone number.
 - A "find" button is added right next to the "new" button.

    More new features

- Duplicate button and menu items in the record view which allow you to
duplicate an existing record or parts of it.
 - Contact management menu item in the record view which lets you add a date to
field custom4.

- Search & Replace engine (see details below).

6.2 Changing the display and sort order of the address list

Tap the titles sorting popup trigger (directly above the list of addresses) to
get a list of pre-selected sorting schemes, choose one of the sorting schemes to
apply it to the addresses database. Choose "Other..." to get to the Sorting and
preferences panel (you can also get to this panel by tapping the Options menu
and choosing "Preferences").

In this panel there are 2 drop down lists: the upper one is for the main sort
field, and the next one is for the secondary sort field.
The entries in the drop down lists are identical in the 2 lists and include:
Last name, First name, Company, Phone1, Phone2, Phone3, Phone4, Phone5, address,
city, state, zip code, country, title, custom1, custom2, custom3, custom4.
You may choose any of the entries in any of the fields.

The entry you choose for the main sort field is used to sort the list, for
example if you choose "city" than in the address list all the records appear
sorted with the city name first.
The entry you choose for the secondary sort field is used to sort the list if
the records has the same data in the main sort field, for example if you choose
"First name" and 2 records have the same "last name" in the main sort field
(e.g. "Smith") than in the address list the 2 records appear sorted according to
the secondary sort field - "first name" (e.g. "John", "Sam").

Tapping the "Done" button causes the list to be resorted and redisplayed
according to the fields you chose.

While in the list view you can change the displayed phone number by selecting a
field from the popup list in the titles row. The entry you choose for the phone
display field is used to display the field you want instead of phone in the
list, for example if you choose "title" than in the address list all the records
appear with the titles instead of phone numbers.

If you checked in the preferences panel the "Fill phone field" checkbox than -
If for a certain record the phone field is empty than it will show the phone
field you chose in "show in list" preference for the record. If this one does
not exist than the next available phone number will be shown.
You may select "None" to be displayed, than no phone number is displayed and you
get to see more details on the 1st 2 displayed fields.
You may select "ShowInList" to display the phones exactly as in the address book
according to your choices of what phone number to show in the list. If there is
no phone number chosen - the next available one will be displayed.

New !! You may now select different sorting schemes and different phone view
fields for different categories , and than by changing categories you get
different sorting and viewing possibilities.
For example I chose the "last,first" sorting scheme and "phone1" view field for
my "personal" category and the "company,last" scheme with no phone view field
for my "business" category.
In order to enable this feature goto the preferences panel and check the "Sort
for each category" checkbox.

!! Be aware that if you use this feature, each time you change a category the
database is resorted - for big databases this operation may take some time ! -
changing only the phone view field will not cause a resort!

6.3   The Quick Bar

The Quick Bar allows you a faster access to the records. By tapping a letter on
the quick bar the first record with the same letter in the main sort field is
highlighted.
If you want a more accurate access to a record you can add letters to the "Find
field" (located now in the upper left corner) using Graffity strokes or the
built in keyboard.

6.4   The Record duplication feature

In the Record view a "duplicate" button is added. Tapping this button causes a
new record to be opened in the Edit view with all the details of the previously
selected record. You may now edit the new record and save it at your will.
In the Record menu 3 menu items are added which allow you whole or partial
duplication:
- Duplicate Whole (same as the button)
- Duplicate w/o name and title (allows you to create a new entry for a fellow
worker of an existing contact)
- Duplicate only company info (same company but not a fellow...)

6.5   The contact management feature

A contact management feature appears In the Record menu of the record view as
the menu item: "Add last contact date". Tapping this menu item will popup a date
selection window which will let you specify a date. The date you specify is
entered automatically into field custom4 (which you can rename for example to:
"Last contact date:").
If you use this feature you can sort your list according to contact
dates...(close enough - the sorting is according to ASCII characters and not
numeric digits so some glitches may appear: 7/10/99 will be before 7/2/99).

6.6 Auto Resort after HotSync

Due to a built in feature of the old address book that auto resorts the address
database after each Hotsync and the facts that your sorting scheme probably
differs from the one the old address book uses and one cannot delete the old
address book from the device, the address database appears to be messed up after
each hotsync under addressPro. In order to resort the database automatically
after a hotsync check in the preferences panel the check box marked "Resort
after HotSync". You may not check it if you use the same sorting scheme as the
old address book (e.g.: Company, Last name) and your database doess not get
messed up due to this fact.
If you have a large database an auto resort may come in the wrong time. you can
uncheck the "auto resort" checkbox and manually resort the database at your own
leisure by tapping the "az" icon to the left of the sorting scheme popup list
trigger.

6.7 Search & Replace engine

Tapping the "Find" button in the List view brings up the "Search & Replace"
form.
Enter the string to search in the search field, choose which fields to check and
hit the "Go" button.
The search is being done only on the current category, so in order to search the
whole database, please choose the category "All".

The search result is shown as a list in a "Search" form. In order to get back to normal mode hit the "Done" button. In order to change search string or fields hit the "More" button.

Replacing text / changing category / deleting

For each record found to comply with the search string you can do the following:
 - Replace the searched string with a new string. Enter the new string in the replace field and check the checkbox.
 - Change the category of the record. Choose the new category from the categories list and check the checkbox.
 - Delete the record. Check the "delete record" checkbox.

!!!!!!!!!! CAUTION !!!!!!!!!!!!!

I DO NOT RECOMMEND REMOVING THE CHECK MARK FROM THE VERIFY ACTION CHECKBOX.
LETTING THE APPLICATION DO THE REPLACING/DELETING JOB AUTOMATICALLY FOR YOU
WITHOUT SUPERVISION MAY CAUSE UNWANTED RESULTS.
TAKE THE CHECKMARK OFF ONLY IF YOU CAN SPECIFY AN EXACT SEARCH STRING THAT WILL
"CATCH" ONLY THE RECORDS YOU WANT AND ONLY IF YOU EXPECT A LOT OF RECORDS TO BE
PROCESSED.

BE WARNED - AND HOTSYNC ALWAYS BEFORE YOU DO ANY KIND OF WORK OF THIS SORT.

!!!!!!!!!! CAUTION !!!!!!!!!!!!!!

Remarks

 - The search engine is case insensitive !
 - Search an empty string and you will get all the records within the specified field - which are empty.

Some search & replace examples

To find all the records in the database containing my last name: ("Zinger") - I choose the "Personal" category , tap the "find" button, than I enter "zinger" in the search field and choose the last name field to be searched (saves time...) - than I hit the GO! button...

To replace all the occurances of "zinger" with "singer" in all the records in the database :- I choose the "All" category , tap the "find" button, than I enter "zinger" in the search field and choose all fields to be searched , I enter "singer" in the replace field and check the checkbox of this field - than I hit the GO! button...

To delete all records containing the string "Jacob" in their first name field in the "Personal" category: - I choose the "Personal" category , tap the "find" button, than I enter "jacob" in the search field and choose the first name field to be searched , check the delete record checkbox - than I hit the GO! button...

Note !!! - I never uncheck the "Verify each action" checkbox !

7. Future Enhancements

- Anything you have in mind ! - And I think is worth the effort (An original enhancement suggestion implemented by me will entitle the responsible party the application and future upgrades - FREE for life !)

8. Bug Reporting

If you find a bug or want to suggest an enhancement you can contact me at:

        sjzinger@geocities.com

9. Disclaimer

This product is provided without any warranty and the user accepts full responsibility for any damages, consequential or otherwise, resulting from its use.
This archive is freely redistributable, provided it is made available only in its complete, unmodified form with no additional files.

10. Registration

This program is a shareware. The unregistered version's is fully functional except the replace feature which is disabled and a registration reminder you see every time you start using the application.

If you like the program and wish to get the full version, please register with the author for the nominal fee of 19.95$.

Registering will provide you the following:
- the full registered version which is not limited in any way.
- Free upgrades of the software.

Register the program at Palmgear HQ :
 - online via: www.palmgear.com - Products shopping mall
 - via phone: 817.640.6558
 - via fax: 817.640.6614

The author's Web site can be found at:

http://www.geocities.com/SiliconValley/Campus/7631/index.html

11. Versions
    ----
ver 0.1b - May 23 1999 - initial beta release
ver 0.3b - May 28 1999 - Added dynamic title bar (shows the real names of the fields you choose).
ver 0.5b - May 29 1999 - Fixed crash problem on PalmIIIx/V
ver 0.7b - May 29 1999 - Added Record & partial record duplication
ver 0.71b - June 1 1999 - Added menuhack compatability
ver 0.75b - June 2 1999 - Fixed lookup mechanism, handled installation crashes

ver 0.8b - June 4 1999 - Finally installation/hotsync crashes are gone! (Sorry folks...)
ver 0.85b - June 6 1999 - Improved sorting speed. Fixed sorting bugs
ver 0.9b - June 12 1999- Improved display speed.
                    Fixed lookup& search mechanisms.
                    Added custom fields to the sorting lists.
                    if phone field is empty than show in list phone is displayed and if none than the next
exisiting phone number.
                    Phone field is now selectable from the list view and could be set to "None".
ver 1.0   - June 14 1999 - Official release.
                    All reported bugs are fixed.
ver 1.01 - June 19 1999 - Updated info in About dialog concerning PalmGear HQ. Full version is not affected.
ver 1.1   - June 26 1999 - Fixed new record DB positioning bug.
ver 1.11 - June 27 1999 - The missing application icon is back !
ver 1.13 - July 3 1999 - shareware version(only) bug fix: Fatal exception on record view PageDown. Registered version not affected and stays at v1.11 .
ver 1.2 -   July 7 1999 - Changed Sort button to popuplist trigger with preset sorting schemes.(not released)
ver 1.3 -   July 9 1999 - Contact management feature added to record view - adding last contact date to custom4 field.(not released)
ver 1.4 - July 10 1999 - Fixed list display problem where only one field was shown when not enough data. Now the list will display 2 fields if it can retrieve data from: company, last or first fields. (handles personal contacts to show last,first when in company,last sorting scheme).(not released)
ver 1.5 - July 11 1999 - Changed title font.(not released)
ver 1.6 - July 12 1999 - Shrunk "New" button + changed font, removed bitmap.(not released)
ver 1.7 - July 13 1999 - moved "New" button & lookup field to bottom of screen - better human engineering...(not released)
ver 1.8 - July 14 1999 - moved down also up/down arrows.(not released)
ver 2.0 - July 16 1999 - cleaned up all minor display problems caused by the major cosmetic change. Time to release...
ver 2.1 - July 17 1999 - Added quicksort button-tap the "az" bitmap under the title to quickly resort the DB.
ver 2.2 - July 21 1999 - Fixed Sort scheme first use problem.
ver 2.3 - July 24 1999 - Added pref: autoresort on startup
                    - rearranged prefs panel
ver 2.4 - July 27 1999 - removed time limitation from unregistered version.
ver 2.5 - July 28 1999 - added HotSync detection mechanism which allows auto-resort on first startup of addresspro after hotsync (address book does a resort after each hotsync and makes addressPro sorting scheme messed up).
                    - changed Pref to: Resort after HotSync.
                    - Fixed contact management bug that caused a crash.
ver 2.6 - August 6 1999 - Added to phone view list the option " Show in list" which shows you the phone numbers just like in the address book - if there is no phone chosen it will pick the first available one.

ver 2.7 - August 10 1999- Added search feature
ver 2.8 - August 20 1999- Added replace feature.
Ver 2.9 - August 22 1999- Added delete record option to the replace feature.
Ver 3.0 - August 27 1999- Added change category option to the replace feature and verification option.
ver 3.1 - Sept 10 1999 - removed quick find bar and field from search mode (2 different search engins which do not interact very well...)

ver 3.2 - Sept 14 1999 - Fixed the ShowInList that does'nt stick bug.
ver 3.3 - Oct 1   1999 - Fixed the bug where a record that was edited during
search mode causes the app to hang when it searches it again.
ver 3.4 - Oct 2   1999 - Fixed the bug which did not allow to replace text with
multiple instances in the same record in one replace operation.
ver 3.5 - Oct 2   1999 - The search field now remembers the last search string
in a single search session.
ver 3.6 - Nov 15 1999 - Added Graffity shift indicator to Search & Replace
screen.
ver 3.7 - Nov 25 1999 - Fixed the bug where in search node one could still
input graffity letters to the lookup field
ver 3.8 - Dec 2   1999 - Added contact management functionality to Edit view
too.
ver 3.9 - Jan 18 2000 - Fixed scrolling problem which made it look that find
@ replace does not find all records & GUI cosmetic change.
ver 4.0 - Jan 26 2000 - Fixed display problem. Added a checkbox to allow
automatic fill of phone field enable/disable (was on all the time).
NEW !!! - Added individual category sort & view feature.

Remarks / Known bugs:
=====================
- Sort speed is according to the number of contacts (more = slower) and how
messed up is the sorting order before you start the sort.

- Shareware version users ! - evaluation period limitations gone!

- date sorting is not perfect(custom4 field).

- If you choose to use a different sort scheme for different categories please
be patient while the database is resorted every time you move between categories
with different sort schemes.

Tips
====
- In order to see in the list only one field in its full details choose in the
sorting preferences panel the main sort field and the second sort field to be
the same and choose the phone field to be "None".

- If soring each category is to slow for you, leave the checkbox checked , make
sure all categories have the same sorting scheme, and change the phone view
field between different categories - changing categories will not cause a resort
and you get a different look for each category.

```
Set      Items    Description
S1       55454    REARRANG? OR RESORT? OR REFILTER? OR ACF
S2       32498    (DEFAULT? OR INITIAL? OR ORIGINAL? OR MAIN? OR PRIMARY?)(2-
                  N)(SORT? OR ARRANGE? OR ISM OR FILTER? OR INDEX? OR INDICE?)
S3       116153   (SECOND? OR ADDITIONAL? OR NEXT? OR ANOTHER? OR AGAIN? OR -
                  2ND? OR VARIOUS?)(2N)(ISM OR SORT? ? OR FILTER? OR ARRANGE? OR
                  INDEX? OR INDICE?)
S4       165428   S1 OR S3
S5       1328557  REDUNDANT? OR DUPLICAT? OR REPEAT? OR AGAIN? OR SAME? OR S-
                  IMILAR? OR IDENTICAL? OR COMPATIBLE?
S6       841187   DATA()ELEMENT? OR FIELD? OR TAG? OR METADATA? OR LABEL? OR
                  META()(DATA OR INFORMATION)
S7       89975    (OUTPUT? OR DEFAULT? OR INPUT OR (IN OR OUT)()PUT? ?)(3N)(-
                  PORT? ? OR COMMPORT? OR  BUS OR LINE? OR ACCESS?)
S8       843057   RECORD?.? OR OBJECT? OR TEXT?
S9       173427   DATAMINE? OR DATA()(MINE? OR WAREHOUSE? OR BASE? OR BANK?)
                  OR OODB OR DBMS OR RDBMS OR DB OR DATABASE? OR DATABANK?
S10      2120     (MULTILEVEL? OR TIER? OR HIERARCH?)(3N)(RESULT? OR SEARCH?
                  OR SEEK? OR QUER? OR FILTER? OR SORT?)
S11      915476   USER? OR INDIVIDUAL? OR MEMBER? OR OPERATOR? OR PERSONAL?
S12      1686     S2(15N)S4
S13      30       S12(15N)S9
S14      2        S12(S)S10
S15      21       (S13 OR S14) AND IC=G06F?
S16      54       (S2 OR S3) (S)S10
S17      370      (S2 OR S3)(15N)S9(15N)S5
S18      32       S17(10N)(S6 OR S7)
S19      108      S13 OR S14 OR S15 OR S16  OR S18
S20      38       S19 AND IC=(G06F-017? OR G06F-007?)
S21      40       S20 OR S14
S22      40       IDPAT (sorted in duplicate/non-duplicate order)
S23      40       IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Jan W03
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040115,UT=20040108
         (c) 2004 WIPO/Univentio
```

*European &
PCT
Filer*

 23/5,K/2   (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01566354
Collecting statistics in a database system
Sammeln von Statistiken in einem Datenbanksystem
Recolte de statistiques dans une base de donnees
PATENT ASSIGNEE:
  NCR INTERNATIONAL INC., (1449480), 1700 South Patterson Boulevard,
    Dayton, Ohio 45479, (US), (Applicant designated States: all)
INVENTOR:
  Brown, Douglas P., 17159 Calle Serena, Rancho Santa Fe, CA 92067, (US)
  Chaware, Jeetendra, 4 Rochi Apts., Addagutta, East Marredpally,
    Secunderabad 500026, (IN)
LEGAL REPRESENTATIVE:
  Cleary, Fidelma et al (85871), International IP Department NCR Limited
    206 Marylebone Road, London NW1 6LY, (GB)
PATENT (CC, No, Kind, Date): EP 1302871 A2 030416 (Basic)
APPLICATION (CC, No, Date):   EP 2002256686 020925;
PRIORITY (CC, No, Date): US 976634 011012
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1302871 A2
    Statistics regarding at least one attribute (or column) of a table in a
database system are collected using an enhanced mechanism for faster
collection. The statistics collection is based on scanning a sample of
rows of a given table, with the sample being less than all the rows of
the table. The percentage of rows to be read is specified in a statement
submitted to the database system. The database system then uses the
specified percentage to read the sample rows from the table for
collecting statistics on the at least one attribute.
ABSTRACT WORD COUNT: 94
NOTE:
  Figure number on first page: 3

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 030416 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English)   200316   434
      SPEC A   (English)   200316   7463
Total word count - document A   7897
Total word count - document B   0
Total word count - documents A + B   7897

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION to locate the row in the base table containing the value.
    In some TERADATA(R) **database** management systems, a **primary   index**
and one or more optional **secondary   indexes** are defined for each
table. In a **database** system having multiple access modules, such as
access module processors (AMPs) in a TERADATA(R...recommends a set of
indexes that are appropriate for the given workload. If the target
database systems 14A, 14B are TERADATA(R) **database** systems from NCR
Corporation, then the **indexes** recommended are **secondary   indexes** .
The **indexes** recommended can also be **primary   indexes** . However, note
that although reference is made to selecting **secondary   indexes** in
this discussion, the invention is not to be limited in scope to selection
of...

23/5,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01566351
Index selection in a database system
Auswahlen von Indexen in einem Datenbanksystem
Selection d'indices dans un systeme de base de donnees
PATENT ASSIGNEE:
   NCR International, Inc., (1449484), 1700 South Patterson Boulevard,
      Dayton, Ohio 45479, (US), (Applicant designated States: all)
INVENTOR:
   Brown, Douglas P., 17159 Calle Serena, Rancho Santa Fe, CA 92067, (US)
   Koppuravuri, Manjula, 33-56 Lake Villa Apartments, RTC Colony, Gunrock
      Road, Secunderabad 500015, (IN)
   Chaware, Jeetendra, 4 Rochi Apts., Addagutta, East Marredpaly,
      Secunderabad 500026, (IN)
LEGAL REPRESENTATIVE:
   Cleary, Fidelma et al (85871), International IP Department NCR Limited
      206 Marylebone Road, London NW1 6LY, (GB)
PATENT (CC, No, Kind, Date): EP 1302870 A2 030416 (Basic)
APPLICATION (CC, No, Date): EP 2002256677 020925;
PRIORITY (CC, No, Date): US 977038 011012
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
   IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1302870 A2
   An index selection mechanism allows for efficient generation of index
   recommendations for a given workload of a database system. The workload
   includes a set of queries that are used to access tables in a database
   system. The index recommendations are validated to verify improved
   performance, followed by application of the indexes. Graphical user
   interface screens are provided to receive user input as well as to
   present reports to the user.
ABSTRACT WORD COUNT: 71
NOTE:
   Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 030416 A2 Published application without search report
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
       CLAIMS A (English) 200316   647
       SPEC A   (English) 200316   17520
Total word count - document A   18167
Total word count - document B   0
Total word count - documents A + B   18167

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION conditions (such as in the Where clause of a SELECT
   statement).
   In the TERADATA(R) **database** management system, a **primary   index** is
   defined for each table, and one or more **secondary   indexes** are
   optionally defined for each table. In a **database** system having multiple
   access modules, such as AMPs in a TERADATA(R) database management system
   ...

...overhead, since the secondary index is stored in sub-tables. Despite the
   extra storage required, **secondary   indexes** , if properly used, can
   enhance **database** performance.
   Proper selection of indexes (such as the **primary** and **secondary**
   indexes of the TERADATA(R) **database** management systems) is important
   for optimal **database** performance. This is also referred to as the index
   selection problem, which can be a...recommends a set of indexes that are

appropriate for the given workload. If the target **database** systems 14A, 14B are TERADATA(R) **database** systems from NCR Corporation, then the **indexes** recommended are **secondary** **indexes** . The **indexes** recommended can also be **primary** **indexes** . However, note that although reference is made to selecting **secondary** **indexes** in this discussion, the invention is not to be limited in scope to selection of...

DIALOG(R)File 348:EUROPEAN PATENTS

01560168
Method and device for marking and filtering data elements in a database
Verfahren und Vorrichtung zum markieren und filtern von Data-Elementen in
    einer Datenbank
Procede et appareil pour marquer et filtrer des elements de donnees dans
    une base de donnees
PATENT ASSIGNEE:
  SUN MICROSYSTEMS, INC., (1392733), 901 San Antonio Road, Palo Alto,
    California 94303, (US), (Applicant designated States: all)
INVENTOR:
  Grobler, Dirk, Marienstrasse 26, 24534 Neumunster, (DE)
  Janssen, Ocke, Stellinger Weg 30, 20255 Hamburg, (DE)
  Schonheit, Frank, Tiedeweg 40, 22047 Hamburg, (DE)
LEGAL REPRESENTATIVE:
  Becker Kurig Straus (101571), Patentanwalte Bavariastrasse 7, 80336
    Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1298539 A1 030402 (Basic)
APPLICATION (CC, No, Date): EP 2001123606 011001;
DESIGNATED STATES: DE; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1298539 A1
    The invention relates to the a method and a computer program for
    enabling a user to mark tables in a table structure of a database. The
    method utilizes marking in all hierarchic levels of a hierarchic table
    structure of a frontend of a database. The markings can be used to
    simplify the access of tables in databases with a great number of tables
    stored. The markings can be applied to all hierarchic levels of the table
    directory structure, to simplify the access in the upper hierarchic
    levels of the table directory structure. Additionally the marking in the
    lowest hierarchic level can be restricted to ensure that new and unmarked
    tables can perceived by the user.
ABSTRACT WORD COUNT: 116
NOTE:
  Figure number on first page: 2A

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 030402 A1 Published application with search report
 Examination: 030521 A1 Date of request for examination: 20030320
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English) 200314   630
      SPEC A   (English) 200314   7247
Total word count - document A   7877
Total word count - document B   0
Total word count - documents A + B   7877

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION Figure 2B depicts the table structure of figure 2A with an
    activated "hide unmarked elements" **filter** according to **another**
    embodiment of the present invention. The depicted filter differs from a
    filter for "hide unmarked elements" of figure 1B, as the lowest
    hierarchic level is not **filtered** . All tables beneath an unmarked
    schema are not displayed anyway. All tables beneath a marked...

DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01429496
Method and device for performing a query on a markup document
Methode und Gerat zum Ausfuhren einer Anfrage in einem Dokument in einer
    Markierungssprache
Procede et appareil d'interrogation d'un document en langage de balisage
PATENT ASSIGNEE:
    SIEMENS AKTIENGESELLSCHAFT, (200520), Wittelsbacherplatz 2, 80333 Munchen
        , (DE), (Applicant designated States: all)
INVENTOR:
    Kircher, Michael, Hauptstrasse 46, 85579 Neubiberg, (DE)
PATENT (CC, No, Kind, Date): EP 1207461 A1   020522 (Basic)
APPLICATION (CC, No, Date):   EP 2000125159 001117;
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**

ABSTRACT EP 1207461 A1
    A method of performing a query on a Markup document, which includes
    steps of receiving a query and designing a plurality of filters to
    reflect a structural linkage of a condition tree representing the query.
    The step of designing the plurality of filters includes designing a
    highest-level filter that can become active only if an event-based parser
    indicates that an element for which the highest-level filter is searching
    has been found. The step of designing the plurality of filters also
    includes designing a lowest-level filter that can become active only when
    the highest-level filter has become active and when the parser indicates
    that an element for which the lowest-level filter is searching has been
    parsed. The method also includes a step of parsing a Markup document, and
    a step of checking the lowest-level filter to determine whether it has
    found the element for which it has been searching.
ABSTRACT WORD COUNT: 149
NOTE:
    Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 020522 A1 Published application with search report
 Examination: 021218 A1 Date of request for examination: 20021021
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS A (English)   200221   455
     SPEC A   (English)   200221   2124
Total word count - document A   2579
Total word count - document B   0
Total word count - documents A + B   2579

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION name attributes of 'WinNT' where these "os" elements are
    also children of "implementation" elements. A **second   hierarchical**
    filter chain 16 is registered with the filter "implementation" 12 to
    find "compiler" elements having name...

...14 has found an element for which it is searching, and if the "name"
    attribute **filter** in the **second   filter** chain 16 has found an element
    for which it is searching, then the necessary composite...

00100089
Data base access process using a user-friendly menu
Datenbankzugriffsverfahren mit einem benutzerfreundlichen Menu
Procede d'acces de base de donnees utilisant un menu convivial
PATENT ASSIGNEE:
   International Business Machines Corporation, (200120), Old Orchard Road,
      Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
   Knapman, John M., 4 Crampton's Gap, Richardson Texas 75080, (US)
LEGAL REPRESENTATIVE:
   de Pena, Alain (15151), Compagnie IBM France Departement de Propriete
      Intellectuelle, 06610 La Gaude, (FR)
PATENT (CC, No, Kind, Date):   EP 114221   A2   840801 (Basic)
                               EP 114221   A3   870415
                               EP 114221   B1   960904
APPLICATION (CC, No, Date):   EP 83111218 831110;
PRIORITY (CC, No, Date): US 459792 830121
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: **G06F-017/30**
CITED REFERENCES (EP A):
   NEC RESEARCH & DEVELOPMENT, no. 51, October 1978, pages 1-10, Tokyo, JP;
      K. HAKOZAKI et al.: "A conceptual design of a generalized database
      subsystem"
   PROCEEDINGS ON VERY LARGE DATA BASES, 6th-8th October 1977, Tokyo, JP,
      vol. 9, no. 2C, pages 380-395; E.J. NEUHOLD et al.: "Porel: a
      distributed data base on an inhomogeneous computer network"
   IBM TECHNICAL DISCLOSURE BULLETIN, vol. 17, no. 11, April 1975, New York,
      US; R.G. BEARD et al.: "Multiple IMS transaction approach for IMS
      conversations";

ABSTRACT EP 114221 A2
   Data base access process using a user-friendly menu.
   Data base administrator (10) creates program communication blocks (11),
and programmer (12) writes programs (13) using the program communication
blocks (PCBs11) to store data in bulk storage device (14). A user (15)
not having data processing skills or experience is enabled to access data
in bulk storage device (14) via the PCBs (11). The system first reads the
data base descriptions (DBDs) and PCB source statements and constructs a
data directory, consolidating access paths into entry data bases which
are displayed to the user (15) as a menu. The system then evaluates all
possible access paths that will satisfy a user query, weights them
according to their efficiency, and selects the best.
ABSTRACT WORD COUNT: 122

LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application: 840801 A2 Published application (A1with Search Report
                            ;A2without Search Report)
 Examination: 850206 A2 Date of filing of request for examination:
                            841123
 Search Report: 870415 A3 Separate publication of the European or
                            International search report
 Examination: 880831 A2 Date of despatch of first examination report:
                            880715
 Change: 920415 A2 Representative (change)
 Grant: 960904 B1 Granted patent
 Oppn None: 970827 B1 No opposition filed
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
     CLAIMS B (English)   EPAB96   640
     CLAIMS B (German)   EPAB96   626
     CLAIMS B (French)   EPAB96   710
     SPEC B   (English)   EPAB96   2662
Total word count - document A   0

Total word count - document B   4638
Total word count - documents A + B   4638

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION a line in a member.
   The next step in block 22 is to read all **secondary   index** DBDs,
locating the indexed **fields ,** in the entry **data   base** members and in
block 23, saving the **index** target segment **against** the definition of
the indexed **field .** In block 24, all logical DBDs are read and the
physical source entry **data   base** for each one is located. By this is
meant that the physical data base whose...

...are created, one per segment and PCB. If a PCB uses a secondary
processing sequence (**secondary   index**), that fact is recorded in a
segment PCB line and the PCB identification is recorded **against** the
indexed   field as indicated by block 31.
   At this point, all entry **data   bases** are scanned and those segments
referenced by no PCBs and those entry **data· bases** containing no
referenced segments are eliminated as indicated by block 32. Finally, a
set of...

```
Set       Items     Description
S1          41      AU=(LAWTON S? OR LAWTON, S?)
S2           7      S1 AND IC=(G06F-017? OR G06F-007?)
S3           7      IDPAT (sorted in duplicate/non-duplicate order)
S4           7      IDPAT (primary/non-duplicate records only)
File 344:Chinese Patents Abs Aug 1985-2003/Nov
         (c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
         (c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Jan W03
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031225,UT=20031218
         (c) 2003 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200403
         (c) 2004  Thomson Derwent
```

Inventor
Search
Ports

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014869504   **Image available**
WPI Acc No: 2002-690210/200274
Related WPI Acc No: 2002-566212; 2002-566213; 2002-574532; 2002-582967;
  2002-589972; 2002-607515; 2002-690207; 2003-776661
XRPX Acc No: N02-544427
  **Quick search entry system for Internet search services, stores search
  criteria associated with user ID in storage unit for retrieving
  automatically on reception of corresponding user ID to merge with default
  form**
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020087527	A1	20020704	US 2000234252	P	20000921	200274	B
			US 2000237243	P	20001002		
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001969542	A	20011002		

Priority Applications (No Type Date): US 2001969542 A 20011002; US
  2000234252 P 20000921; US 2000237243 P 20001002; US 2000237249 P 20001002
  ; US 2000237250 P 20001002; US 2000237254 P 20001002; US 2000238577 P
  20001006; US 2000238587 P 20001006; US 2000238754 P 20001006; US
  2000238791 P 20001006
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020087527	A1		10	G06F-007/00	Provisional application US 2000234252
					Provisional application US 2000237243
					Provisional application US 2000237249
					Provisional application US 2000237250
					Provisional application US 2000237254
					Provisional application US 2000238577
					Provisional application US 2000238587
					Provisional application US 2000238754
					Provisional application US 2000238791

Abstract (Basic): US 20020087527 A1
     NOVELTY - A primary controller writes to a storage unit, a search
  criteria and associated user ID received from an input port and an ID
  port, respectively. A secondary controller automatically retrieves
  stored data corresponding to a user ID received from an ID port to
  merge it with a default form received from an input port and sends the
  merged form to a user, to prevent user from recalling or re-entering
  previously entered search criteria.
     DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for quick
  search entry method.
     USE - For use in Internet search services for searching job
  openings, resumes of job seekers, apartments for rent, houses for sale,
  etc.
     ADVANTAGE - Automatically saves and recalls a user's search
  criteria, thereby saving the time associated with repeated searches.
     DESCRIPTION OF DRAWING(S) - The figure shows the flowchart
  illustrating the steps for a form submission.
     pp; 10 DwgNo 2a/4
Title Terms: QUICK; SEARCH; ENTER; SYSTEM; SEARCH; SERVICE; STORAGE; SEARCH
  ; CRITERIA; ASSOCIATE; USER; ID; STORAGE; UNIT; RETRIEVAL; AUTOMATIC;
  RECEPTION; CORRESPOND; USER; ID; MERGE; DEFAULT; FORM
Derwent Class: T01

International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 4/5/2   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014869501   **Image available**
WPI Acc No: 2002-690207/200274
Related WPI Acc No: 2002-566212; 2002-566213; 2002-574532; 2002-582967;
 2002-589972; 2002-607515; 2002-690210; 2003-776661
XRPX Acc No: N02-544424
 Query management system in information search system, receives data
 objects list and user identifier or search criteria identifier from
 respective input ports and stores in storage to transmit, to respective
 output ports
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020087517	A1	20020704	US 2000237243	P	20001002	200274	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237252	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001969012	A	20011002		

Priority Applications (No Type Date): US 2001969012 A 20011002; US
 2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
 ; US 2000237252 P 20001002; US 2000237254 P 20001002; US 2000238577 P
 20001006; US 2000238587 P 20001006; US 2000238754 P 20001006; US
 2000238791 P 20001006
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020087517	A1		12	G06F-007/00	Provisional application US 2000237243
					Provisional application US 2000237249
					Provisional application US 2000237250
					Provisional application US 2000237252
					Provisional application US 2000237254
					Provisional application US 2000238577
					Provisional application US 2000238587
					Provisional application US 2000238754
					Provisional application US 2000238791

Abstract (Basic): US 20020087517 A1
      NOVELTY - An input port receives a result list of data objects from
 an information location mechanism (ILM). A controller (12) sends result
 list of data objects and search criteria or user identifier
 respectively received from the input ports (14,16) to a merged output
 port (18). Another controller (22) stores user and search criteria
 identifiers received from an input port (26) in a storage (20) for
 sending to an output port (28).
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
 following:
      (1) Search system; and
      (2) Query management method.
      USE - Used in information search system (claimed) comprising
 Internet access device (IAD) such as personal computer system, computer
 workstation, desktop computer, laptop computer, hand-held computer,
 television set-top box, mobile telephone, cellular telephone, pager,
 beeper and visual display unit.
      ADVANTAGE - Reduces time and frustration associated with repeated

searches, by reducing the time required to store, review, edit, delete
and invoke search cyriteria.
    DESCRIPTION OF DRAWING(S) - The figure shows a schematic
representation of the search criteria storing and managing system.
    Input ports (14,16,26)
    Merged output port (18)
    Storage (20)
    Controllers (12,22)
    Output port (28)
    pp; 12 DwgNo 1/5
Title Terms: QUERY; MANAGEMENT; SYSTEM; INFORMATION; SEARCH; SYSTEM;
  RECEIVE; DATA; OBJECT; LIST; USER; IDENTIFY; SEARCH; CRITERIA; IDENTIFY;
  RESPECTIVE; INPUT; PORT; STORAGE; STORAGE; TRANSMIT; RESPECTIVE; OUTPUT;
  PORT
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 4/5/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014786809   **Image available**
WPI Acc No: 2002-607515/200265
Related WPI Acc No: 2002-566212; 2002-566213; 2002-574532; 2002-582967;
  2002-589972; 2002-690207; 2002-690210; 2003-776661
XRPX Acc No: N02-481096
  **Adaptive criteria filtering system for information sorting mechanism,
  adapts secondary sort criteria to user specified sort criteria giving
  user control over primary sort order while retaining secondary sort
  criteria**
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020078023	A1	20020620	US 2000237243	P	20001002	200265	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001973678	A	20011005		
			US 2001337252	P	20011203		

Priority Applications (No Type Date): US 2001337252 P 20011203; US
  2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
  ; US 2000237254 P 20001002; US 2000238577 P 20001006; US 2000238587 P
  20001006; US 2000238754 P 20001006; US 2000238791 P 20001006; US
  2001973678 A 20011005
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020078023	A1		12	G06F-007/00	Provisional application US 2000237243
					Provisional application US 2000237249
					Provisional application US 2000237250
					Provisional application US 2000237254
					Provisional application US 2000238577
					Provisional application US 2000238587
					Provisional application US 2000238754
					Provisional application US 2000238791
					Provisional application US 2001337252

Abstract (Basic): US 20020078023 A1
    NOVELTY - A filter (12) creates an adapted list by merging an
    instruction list with relevant portions of a secondary sort criteria

and sends the adapted list to an output port (18). The adaptive
criteria filtering system (ACFS) adapts secondary sort criteria to
user-specified sort criteria giving the user control over the primary
sort order while retaining the benefit of the secondary sort criteria.
    DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
following:
    (1) Sort system;
    (2) Search system; and
    (3) Adaptive criteria filtering method.
    USE - For assembling sort criteria in information sorting mechanism
(ISM).
    ADVANTAGE - By enabling the user to control primary sort criteria
while retaining the benefit of default sort criteria, that is implied
by the user's explicit choice, the time and effort spent for finding
and understanding information is reduced. The process of organizing
information is automated in a useful manner while remaining flexible
enough to adapt to user input.
    DESCRIPTION OF DRAWING(S) - The figure shows a schematic diagram of
the computer having the ACFS system.
    Filter (12)
    Output port (18)
    pp; 12 DwgNo 1/5
Title Terms: ADAPT; CRITERIA; FILTER; SYSTEM; INFORMATION; SORT; MECHANISM;
  ADAPT; SECONDARY; SORT; CRITERIA; USER; SPECIFIED; SORT; CRITERIA; USER;
  CONTROL; PRIMARY; SORT; ORDER; RETAIN; SECONDARY; SORT; CRITERIA
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 4/5/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014762263   **Image available**
WPI Acc No: 2002-582967/200262
Related WPI Acc No: 2002-566212; 2002-566213; 2002-574532; 2002-589972;
  2002-607515; 2002-690207; 2002-690210; 2003-776661
XRPX Acc No: N02-462331
  **Adaptive visual grouping system creates formatted representation of data
  objects based on user criteria and organizes objects into distinct groups
  to provide user with clear and meaningful presentation**
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020078021	A1	20020620	US 2000237243	P	20001002	200262	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237252	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001972740	A	20011005		

Priority Applications (No Type Date): US 2001972740 A 20011005; US
  2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
  ; US 2000237252 P 20001002; US 2000237254 P 20001002; US 2000238577 P
  20001006; US 2000238587 P 20001006; US 2000238754 P 20001006; US
  2000238791 P 20001006
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020078021	A1		13	G06F-007/00	Provisional application US 2000237243

                              Provisional application US 2000237249

Abstract (Basic): US 20020078021 A1
NOVELTY - A controller (12) receives instruction list having data element identifiers for grouping from an instruction port (14) and data objects from a data port (16). A filter (20) creates a formatted representation of data objects based on user criteria, and organizes into distinct groups, each of which has data objects similar data element's contents. The user is presented with a visually clear and meaningful view of the organized objects.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:
(1) Search system; and
(2) Adaptive visual grouping method.
USE - Adaptive visual grouping system for organizing information retrieved from data repositories.
ADVANTAGE - The time and frustration associated with finding and understanding information is reduced by enabling information system to provide visually clear and meaningful output that adapts to the user's preferred criteria. The computers automate the process of organizing information in a useful manner, while remaining flexible enough to adapt to user input.
DESCRIPTION OF DRAWING(S) - The figure shows a schematic representation of the adaptive visual grouping system.
Controller (12)
Instruction port (14)
Data port (16)
Filter (20)
pp; 13 DwgNo 1/6
Title Terms: ADAPT; VISUAL; GROUP; SYSTEM; REPRESENT; DATA; OBJECT; BASED; USER; CRITERIA; ORGANISE; OBJECT; DISTINCT; GROUP; USER; CLEAR; MEANING; PRESENT
Derwent Class: T01; W01; W02; W05
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 4/5/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014753828   **Image available**
WPI Acc No: 2002-574532/200261
Related WPI Acc No: 2002-566212; 2002-566213; 2002-582967; 2002-589972; 2002-607515; 2002-690207; 2002-690210; 2003-776661
XRPX Acc No: N02-455415
Two-part data formatting system for Internet search results, invokes overview and detail builders to create respective overview and detail sections of data elements which is sent to user as single page
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020078019	A1	20020620	US 2000237243	P	20001002	200261	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237252	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		

```
            US 2000238791    P    20001006
            US 2001969502    A    20011002
```

Priority Applications (No Type Date): US 2001969502 A 20011002; US
   2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
   ; US 2000237252 P 20001002; US 2000237254 P 20001002; US 2000238577 P
   20001006; US 2000238587 P 20001006; US 2000238754 P 20001006; US
   2000238791 P 20001006
Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
US 20020078019 A1   13 G06F-007/00   Provisional application US 2000237243

                                         Provisional application US 2000237249
                                         Provisional application US 2000237250
                                         Provisional application US 2000237252
                                         Provisional application US 2000237254
                                         Provisional application US 2000238577
                                         Provisional application US 2000238587
                                         Provisional application US 2000238754
                                         Provisional application US 2000238791

Abstract (Basic): US 20020078019 A1
       NOVELTY - A controller receives data objects, meeting user
specified search criteria through a data port and invokes an overview
builder and a detail builder to create respective overview and detail
sections of data elements from data objects. The controller transmits
two sections as single page showing two levels in detail through an
output port to a user.
       DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
following:
       (1) Search system; and
       (2) Two-part data formatting method.
       USE - For locating data objects from computer databases or full
text collections searched over the Internet and organizing for display
on visual display unit.
       ADVANTAGE - Reduces the time and frustration associated with
finding and understanding information by providing overview section
which helps user to understand the scope of the search results and
detail section on the same page to rapidly access to the information
contents. Also enables the resulting data to be browsed, saved and
printed as a single unit.
       DESCRIPTION OF DRAWING(S) - The figure shows the organization of
the search result on the same page.
       pp; 13 DwgNo 3/6
Title Terms: TWO; PART; DATA; FORMAT; SYSTEM; SEARCH; RESULT; DETAIL; BUILD
   ; RESPECTIVE; DETAIL; SECTION; DATA; ELEMENT; SEND; USER; SINGLE; PAGE
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
International Patent Class (Additional): **G06F-017/21**
File Segment: EPI

 4/5/6   (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014745506   **Image available**
WPI Acc No: 2002-566213/200260
Related WPI Acc No: 2002-566212; 2002-574532; 2002-582967; 2002-589972;
   2002-607515; 2002-690207; 2002-690210; 2003-776661
XRPX Acc No: N02-448293
   **Stream lined data viewing system for information retrieval from data
   repositories, transmits navigation control for each data object excluding
   target data object which occupies less display area, and data object to
   client**
Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020078022	A1	20020620	US 2000237243	P	20001002	200260	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001972791	A	20011005		

Priority Applications (No Type Date): US 2001972791 A 20011005; US
  2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
  ; US 2000237254 P 20001002; US 2000238577 P 20001006; US 2000238587 P
  20001006; US 2000238754 P 20001006; US 2000238791 P 20001006
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020078022	A1		12	G06F-007/00	Provisional application US 2000237243

Provisional application US 2000237249
Provisional application US 2000237250
Provisional application US 2000237254
Provisional application US 2000238577
Provisional application US 2000238587
Provisional application US 2000238754
Provisional application US 2000238791

Abstract (Basic): US 20020078022 A1
      NOVELTY - A controller (12) receives target identifier, data object
  list and target data object from instruction port (14), list port (16),
  data port (18) respectively and creates a navigation control with one
  navigation element for each data object in the list excluding the
  target data object. The navigation control which occupies less display
  area and the data object are transmitted to a client through an output
  port (20).
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
  following:
      (1) Search system; and
      (2) Stream lined data viewing method.
      USE - For information retrieval from data repositories.
      ADVANTAGE - Reduces user time and effort associated with finding
  and reviewing information by reducing the number of steps required to
  view any search result and by providing context with every search
  result.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
  the streamlined data viewing system.
      Controller (12)
      Instruction port (14)
      List port (16)
      Data port (18)
      Output port (20)
      pp; 12 DwgNo 1/5
Title Terms: STREAM; LINING; DATA; VIEW; SYSTEM; INFORMATION; RETRIEVAL;
  DATA; TRANSMIT; NAVIGATION; CONTROL; DATA; OBJECT; EXCLUDE; TARGET; DATA;
  OBJECT; OCCUPY; LESS; DISPLAY; AREA; DATA; OBJECT; CLIENT
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 4/5/7   (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014745505   **Image available**
WPI Acc No: 2002-566212/200260
Related WPI Acc No: 2002-566213; 2002-574532; 2002-582967; 2002-589972;

**Search entry system for search engine, has translator for translating
search inputs, data element's identifier, search operations into syntax
valid for information location mechanism and translated search criteria
is sent to ILM**

Patent Assignee: LAWTON S S (LAWT-I)
Inventor: **LAWTON S S**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020078020	A1	20020620	US 2000237243	P	20001002	200260	B
			US 2000237249	P	20001002		
			US 2000237250	P	20001002		
			US 2000237254	P	20001002		
			US 2000238577	P	20001006		
			US 2000238587	P	20001006		
			US 2000238754	P	20001006		
			US 2000238791	P	20001006		
			US 2001972739	A	20011005		

Priority Applications (No Type Date): US 2001972739 A 20011005; US
   2000237243 P 20001002; US 2000237249 P 20001002; US 2000237250 P 20001002
   ; US 2000237254 P 20001002; US 2000238577 P 20001006; US 2000238587 P
   20001006; US 2000238754 P 20001006; US 2000238791 P 20001006
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020078020	A1		14	G06F-007/00	Provisional application US 2000237243
					Provisional application US 2000237249
					Provisional application US 2000237250
					Provisional application US 2000237254
					Provisional application US 2000238577
					Provisional application US 2000238587
					Provisional application US 2000238754
					Provisional application US 2000238791

Abstract (Basic): US 20020078020 A1
      NOVELTY - The entry fields receive respective search inputs from a
   user input device. A translator (20) translates the search inputs, data
   element's identifier and the search operations into a syntax valid for
   an information location mechanism (ILM). The translated search criteria
   is sent to the ILM or to the mechanism invoking SES. Hence users can
   easily provide search criteria without knowing syntax of the ILM and
   novice users are made aware of the search operations.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
   following:
      (1) Search system; and
      (2) Search entry method.
      USE - For search engine.
      ADVANTAGE - The users can easily provide search criteria without
   knowing the syntax required to search the target data repository and
   without knowing the way to construct a boolean search. Desired results
   are obtained by making novice users aware of the search operations.
   Hence the time required to determine the supported syntax and to
   explore controls to discover hidden search operations are saved.
      DESCRIPTION OF DRAWING(S) - The figure shows the schematic
   representation of the search entry system.
      Translator (20)
      pp; 14 DwgNo 1/6
Title Terms: SEARCH; ENTER; SYSTEM; SEARCH; ENGINE; TRANSLATION;
   TRANSLATION; SEARCH; INPUT; DATA; ELEMENT; IDENTIFY; SEARCH; OPERATE;
   SYNTAX; VALID; INFORMATION; LOCATE; MECHANISM; TRANSLATION; SEARCH;
   CRITERIA; SEND
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

```
Set       Items    Description
S1         249     AU=(LAWTON S? OR LAWTON, S?)
S2           6     S1 AND (SORT? OR FILTER? OR ARRANGE? OR INDEX?)
S3           6     RD (unique items)
File     2:INSPEC 1969-2004/Jan W2
           (c) 2004 Institution of Electrical Engineers
File     8:Ei Compendex(R) 1970-2004/Jan W2
           (c) 2004 Elsevier Eng.  Info. Inc.
File    34:SciSearch(R) Cited Ref Sci 1990-2004/Jan W2
           (c) 2004 Inst for Sci Info
File    35:Dissertation Abs Online 1861-2004/Dec
           (c) 2004 ProQuest Info&Learning
File    65:Inside Conferences 1993-2004/Jan W3
           (c) 2004 BLDSC all rts. reserv.
File   275:Gale Group Computer DB(TM) 1983-2004/Jan 19
           (c) 2004 The Gale Group
File   647:CMP  Computer Fulltext 1988-2004/Jan W2
           (c) 2004 CMP Media, LLC
File   674:Computer News Fulltext 1989-2004/Jan W2
           (c) 2004 IDG Communications
File   636:Gale Group Newsletter DB(TM) 1987-2004/Jan 19
           (c) 2004 The Gale Group
```

Inventor
Search
NPL

3/3,K/1   (Item 1 from file: 2)

00582158   INSPEC Abstract Number: A74000724
 Title: High resolution studies of electron excitation processes in xenon
 Author(s): Elston, S.B.; **Lawton, S.A.** ; Pichanick, F.M.J.
 Author Affiliation: Univ. Massachusetts, Amherst, MA, USA
 Conference Title: 8th International Conference on the Physics of
Electronic and Atomic Collisions (Extended abstracts)   Part I   p.480-1
 Editor(s): Cobic, B.C.; Kurepa, M.V.
 Publisher: Inst. Phys, Beograd, Yugoslavia
 Publication Date: 1973 Country of Publication: Yugoslavia   liii+683
pp.
 Conference Sponsor: IUPAP; et al
 Conference Date: 16-20 July 1973   Conference Location: Beograd,
Yugoslavia
 Language: English
 Subfile: A

Author(s): Elston, S.B.; **Lawton, S.A.** ; Pichanick, F.M.J.
 ...Abstract: The photons were detected using an electron multiplier with
an MgF/sub 2/ window. This **arrangement** was sensitive to photon energies
in the range 8-11 eV, and hence predominantly the...

 3/3,K/2   (Item 1 from file: 34)

08639194   Genuine Article#: 310WF   No. References: 15
**Title: The British Association of Dermatologists audit of atopic eczema
     management in secondary care. Phase 3: audit of service outcome**
Author(s): Shum KW (REPRINT) ; **Lawton S** ; Williams HC; Docherty G; Jones J
Corporate Source: ROYAL HALLAMSHIRE HOSP,DEPT DERMATOL, GLOSSOP
     RD/SHEFFIELD S10 2JF/S YORKSHIRE/ENGLAND/ (REPRINT); QUEENS MED
     CTR,DERMATO EPIDEMIOL RES UNIT/NOTTINGHAM NG7 2UH//ENGLAND/; QUEENS MED
     CTR,HLTH AUDIT & RESOURCE CTR/NOTTINGHAM NG7 2UH//ENGLAND/
Journal: BRITISH JOURNAL OF DERMATOLOGY, 2000, V142, N4 (APR), P721-727
ISSN: 0007-0963   Publication date: 20000400
Publisher: BLACKWELL SCIENCE LTD, P O BOX 88, OSNEY MEAD, OXFORD OX2 ONE,
     OXON, ENGLAND
Language: English   Document Type: ARTICLE   (ABSTRACT AVAILABLE)

Author(s): Shum KW (REPRINT) ; **Lawton S** ; Williams HC; Docherty G; Jones J
...Abstract: K. The outcome measures were: quality of life as measured by
     the Dermatology Life Quality **Index** (DLQI) and Children's DLQI
     (CDLQI), improvement in sleep loss, improvement in worse aspect of...
...Identifiers--DERMATITIS; VALIDATION; **INDEX;** AREA; TASK

 3/3,K/3   (Item 2 from file: 34)

04010690   Genuine Article#: QY771   No. References: 0
Title: ANTITRUST IMPLICATIONS OF PHYSICIANS RESPONSES TO MANAGED CARE
Author(s): **LAWTON SE** ; LEIBENLUFT RF; LOEB LE
Corporate Source: HOGAN & HARTSON LLP,555 13TH ST NW/WASHINGTON//DC/20004
Journal: CLINICAL INFECTIOUS DISEASES, 1995, V20, N5 (MAY), P1354-1360
ISSN: 1058-4838
Language: ENGLISH   Document Type: ARTICLE   (Abstract Available)

Author(s): **LAWTON SE** ; LEIBENLUFT RF; LOEB LE
...Abstract: of people insured through employers received their health care
     from some kind of managed care **arrangement** in 1994; this figure
     compares with 47% only 3 years ago. Our members in private...

3/3,K/4   (Item 3 from file: 34)

02497977   Genuine Article#: LF457   No. References: 0
Title: LEGAL ISSUES
Author(s): **LAWTON SE**
Corporate Source: HOGAN & HARTSON/WASHINGTON//DC/00000
Journal: HOSPITAL PRACTICE, 1993, V28, S1 (JUN), P52-57
ISSN: 8750-2836
Language: ENGLISH   Document Type: ARTICLE   (Abstract Available)   (NO REFS
    KEYED)

Author(s): **LAWTON SE**
...Abstract: of patient referrals to physician-owned companies
    (self-referral). Federal ''safe harbor'' regulations protect certain
    arrangements , but much of the law remains vague. Future legislation is
    likely to be more specific...

3/3,K/5   (Item 1 from file: 275)

02132560   SUPPLIER NUMBER: 20138864
**Betting it all on the Web. (DEC is transformed from a hardware vendor to a
    systems integrator focusing on the Internet) (Company Business and
    Marketing) (Company Profile)**
Lawton, Stephen
LAN Times, v14, n26, p14(1)
Dec 18, 1997
DOCUMENT TYPE: Company Profile   ISSN: 1040-5917   LANGUAGE: English
RECORD TYPE: Abstract

Lawton, Stephen

...ABSTRACT: in the design and manufacture of network products, according
to Copperman, although he says the **arrangement** with Cabletron is similar
to an OEM deal.

3/3,K/6   (Item 1 from file: 674)

099318
Web services quandary
**Tomorrow's business-to-business e-comm requires navigating the maze of
    conflicting Web services standards.**
Byline: Stephen Lawton
Journal: Network World   Page Number: 76
Publication Date: February 18, 2002
Word Count: 870   Line Count: 82

Text:
... services in one language but its competition - and its suppliers -
building in a different language. **Sorting** out XML standards is "a bit of a
rat's nest," says Nathaniel Palmer, chief...